

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8185	38553	A	8240	3	666	MSFRQLFQDLKRYVQDADV WEYCVRAKRGQTDTSLGRLFQ QGPGVPGRHRAHSATSPDHRFP VADLTGQGV*GCGPPAAPWG AG*YPGAPLHAGLGTLPAAG AHHGHQPAG*GGAGSPATRLM SVEGCSQRPWTEAPDRPLEHEA VCSVRPRPRCFLGGVGRAGAFL EEEWQHQSVCVPCQPPWGLGT CSSMSGKLSRPPASSLLSRGKA WGQEEs
8186	38554	A	8241	2	443	RTSLEFFFFF*DGSFTLVAQA\ GVQWRHLG*LQPARPPGFK*FS YLSLLSSWDYRHALSHLANFV VYVLF CFYETKRSVTKAGVQ WCDLGSLQAPPPGFTPFSCFSL SSWDYRHLPPHLVNF*CIVSRDG VSLCWGWSRTPDYK
8187	38555	A	8242	1	354	VSLQPVSQEGVSQRTLGQSSRS SGSG/CPGELNSPIFSGVPHRWD AA*EESRAAGVPWPSGQISGMC SKFRI*NW*DVSWAGWSEDLRS *VDLSHGAKSRRTGD*SPKGGP PIRV TAP
8188	38556	A	8243	2	241	WSTGLLRRSGS/NQSSAGKPRR SQSESPG*GSRSSSGSGCESGT CH*G*RRRG*GVLAPAPGKRDL PPRVKDQVRHPCVV
8189	38557	A	8244	5	282	AKKESVREPWARVPGALGVAA R*VEQSDFCQCPAQMGHGLGG IPGCG/PFLGLVVRFLALVASSC PFPRKAGLAAKGEGPRQASLRG LTPLKRG
8190	38558	A	8245	1	302	LSREGVGQKALGQSSRGSGSVC /LGELNSPISSGVPQRWDTA*EE SWAAGIPWPGGQIDFWHL*QA PCPRKSREGVETRREGVGV LAP SPEKRD LPLRVKD
8191	38559	A	8246	1	200	LSPKGVSQRALGQSSRGSGSG/C PGELNSPISSGVPHRWDTA*EES WAAGIPWPGGQISGTCSKLHS
8192	38560	A	8247	23	187	
8193	38561	C	8248	1	1764	

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8194	38562	A	8249	115	872	LRRGRTYPPP*ELPKARHP*WS TGLLRSGSISLQPVSQEGVVSQR AFGQSSRSGSG/SPGELNSLISS GVPHRWDM*EESWAAGIPWP GGQISGTCS/RAPGGGGSGGMP GCCSGVWKFCLCASRKAGKGS GHRDTRSGCGHKGLGRDMRL GCGNKSGHRDIRGWGTCPPF RKAGLAAKGEGPRQASLRGLT PDLKLVRC\PWAGWSEDLRS*V DLSHGAKNRRTGD*SPKGGPPI LGRPLRACSA*AVHF
8195	38563	A	8250	85	529	SGSISLQPLSREGVSQRALGQSS RSGSG/CPGELNSPISSGVPHR WDTA*EESWAAGIPWPGGQISG TCS/RAPVGGSGGTPGRCGSG VWKFCLCAGDVAGVCLTVEAR NCNFFLLLYTLKARLIKSCPCPR KAGLAAKGEGPRQASLQ
8196	38564	A	8251	1	552	MEARETG PWKEGNVERVASVL IKKGTGLPSTVRVTGSSASVMV YGASEAIGQHQSAAKPRRSQS ESLGPEFQGLWEWLPGPRAVK RLRVIFDEKEPKRYLIWDKEKG ALTMTPLAPATFLRVNCWAG GGGLVTERNCKP*WSTGLPRRS GSISLQPLSREGVSQRALGQSSR GSGSGCQGLGL*SVLIKKGTGL PSTVRVTGSSASVMVYGASEAI GQHQSAAKPRRSQSESLGPEF QGLWEWLPGPRAVKRLRVIFD EKEPKRYLIWDKEKGALTLTM PLAPATFLRVNCWAGGGGLVT ERNCKPDQKMGIEIKRRERLK CGSKIERRKRLRDSEGGWRRVE
8197	38565	A	8252	535	710	KCFPACHHYHNNHHHHHHYHHH HQHHHHYHHHHHRITIIITIIIF TIITIIINIIINIIITNITIVIFMRVR VKRPPNRLCVSNMAVYFTWVQ KKKSSLAFFSSVVTSDLKSKRR LSGKSLETSSASLMVYGASEAT GQRQSSAAKPRRSQSESLGPEF QGLREW*YGDGGDDNDNDGV DGGDDSGGGGCGSGGKQESI SIFD

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8198	38566	A	8253	54	563	AEKESVREPRARVPGARGVAA RPSA/RPR*GRPLLCSPYPKH* NCAWHQQAGCWLGTGPAAPA SPPACAAFSWGYGGLPAPIQTA FQAGW\GAPGQGRSKTTRPGV QSVSNPGEPAPEPRAAASSGLSS GAFPAPATDPGICSWAEG LVM GKGHHHRPSISARIPCFHV
8199	38567	B	8254	232	987	
8200	38568	C	8255	1	1812	
8201	38569	A	8256	1	1035	
8202	38570	A	8257	2	664	SLIKLIPPPRPFGRNRHLPVIRQN ERTQRGKRRG\TRYMFSRPF*/R KHGVVPLATYLCEIYKQRCDF VDIQGEWGTCSKKGMP/HHKC Y\HG\KTGRSLTIVTPACLLPLFN TTQFRRKILAK\RN\RIEHI*AL LRARD*LP*NRVKENDQEKERS PKRKGTWGST*SRQPIAPPR\EA HFLEPNNEGALSCWEPFYWI SLGLLGVKKKNKKDLWATKK
8203	38571	A	8258	1	747	MSESFLKPLPEVDAGAILLVQP AELYSKASRLDDCYQKDSYTH RCQEKRTCHTTGGHSGKHQSL SGASVSPTCSAKTRDKINCFDFS PKSEVITLSSNDDSI VLSDCQEG KPKPCSGPFATFKMQYDRTCE WTALKISNGGKLILISTNVSFIR LIGAFKGVVIHTFGSYANSEAV TLEASFTADSQFVMIGSEDGKI HVVNEESG\KK*LGWMVNTQA QLPVCNSTPSSMTFASACSNMA FWLPTIDD
8204	38572	B	8259	50	260	
8205	38573	A	8260	1	541	EVWGPGLASEGAVGITHGPFPPK AKRNPVKVRSKRRDPPIQFQNL RRS*WRSIPRKPGRQTGSRRSL WT/ALHPGAGTAKHPPAA/CA GRET*CKSKSPAGRKWSFHRSS SRRASE*DASQFAVPAGVTSRE PFGSRRTGAPTGGTGTPTRTAR SRTWSSSWVRLSGRTGAVGYS RSPSCSS
8206	38574	C	8261	177	236	
8207	38575	A	8262	1	417	

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8208	38576	A	8263	2	475	GIHTRLNSELLKEEESNKRLEAE IEVQSRLTAAISKHSESVKTER NVKLALE*TQDVSVQVKMSSDI SEVEDKNEFLTEQLSKKQIKFN TLKDKFRKKRDTLRKKSLALET L/QNDLSQTQQQIKEMKEMYEN AEAKVNNSTGKWSCVEERICQ LQHEN
8209	38577	A	8264	3	518	IFRAPFRICLGILLSPPNTEQAQY KKQLEQ/FKQGYNTASLNKKEL TLKDVECKFYKMKTAEEVTT ELEEYKEAFAAALKANSSMLK KLTKSNKKIAMIS/TQLFMEKEQ VKYFLSTLRARRGRESPCDENL TSIGL/NRKYIPQMPVRIPTS/SPQ TSNNCQNYLTEVSHMTVSL
8210	38578	A	8265	1053	3733	NGRSCCERSSTKKECTDIESSEF VNRKSLTSGLEEEQRRERSEK KQPQDFHNHEEVKDLMDENCI LKT DIAIPRQEICTMKNDNLEKE NKYLKDIKIAKGTNAALENCIK LNEEMITKTAFRYQQELNDLKA ENTRLNSELLKEKESKKLEAE IESYQSRLAAAISKHSENVKTER NLKLALERTQDVFEQAGLEEA ELVLSRLSCGEATEGAARRALA AEEAGRWRGVBG/DSWLAPES RLHVLKTCGSCWENLELGRH H*LCLWAVKNFQKRFLPGQKK SPFQLMSPQREFQHTL*ITQKQN RVMNNFIKKYLRLMSSV*CMP LT/IKHSIDKEVRSTSARLPCLGS EERICPAALSGKYKKLLEMTIN VLSVFGNEDFDCHGDLKTDQL KMNILIKKLKHKFDDLTAKEA VSSKCVDLAKDNQVLQQELLS MKKVQQCEKLEKDKKMLEE EILNLKTHMEDNMVELSKLQE YKSELDERAMTAVEKLEEIHLQ LNKGNTASLNKKELTLKDVEC KFSKMKTTYEEVTTKLEEYKE AFAVALKANNMSKKILTKSN KKIAMISTKLLMEKEWVKYFLS TLPTRRGQESPCVENLTSIVLNS KYIPKMTGRIPTSNP*TLNNWQ NYLTEEDMVSGDLISGTWSME EWSLGASSLGTWSAAVGQYLA RWPLCDLSVTVAESPSPCCGA
8211	38579	A	8266	2	209	

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8212	38580	A	8267	1	1431	MTQKAAASVEHLAIRCHWSQR PAVTGDVLQVYSGSEGTAIIFCE TQRSVTEIAMNPHIKQNAQCLH GDIAQSQREFTLKDFREGSFKV LVATNVAACGLDIPEVDLVIHG SPPQDVE/SYIHRSGRTG\FVTM TLESLEEIQDVSCAWKELNRKL SSNAVSQITRMCLLKGNVRVCF DVPTTKSERLQAEWHDSDWIFS VPAKLPEIEEYYDRNTSSNSRQ RSGWSSGQSGRSGGRSGSRNYF AVDTASAIAIALMTFGTMYPMS VYSGKVLLQTTPPHVIGQLDKL IREVSTLDGVLEVRNEHFWTLG FGSLAGSVHVRIRRDANEQMV LAHVTNRLYTLVSTLTVQIFKD DWIRPALLSGPVAANVLNFS DH HVIPMPLLKGTDDLNPVTSTPA KPSSPPPEFSFNTPGKNVNPVIL LNTQTRPYGFGLNHGHTPYSS MLNQGLGVP GIGATQGLRTGF TNIPSRYGTNNRIGQPRP
8213	38581	B	8268	128	1497	
8214	38582	A	8269	1	618	
8215	38583	A	8270	1	334	LFHSIFGYLPFARQTLLPGSILVF TYTQPPKIQFANGTKGLPDPLM TPK*QK\APLMPLL VSLGLSAST IALGTRIAGISTSVTTFCSLSNDF SASFSPYLHRCFLPWSSL
8216	38584	A	8271	1	2919	
8217	38585	A	8272	1	4192	MRIPVDASTSRRFTPPSTALSPG KMSEALPLGAPDAGAALAGKL RSGDRSMVEVLADHPGELVRT DSPNFLCSVLPTHWRCNKTLPI AFKVVALGDVPDGTLVTVMAG NDENYSAELRNATAAMKNQV ARFNDLRFVGRSGRGKSFTLTI TVFTNPPQVATYHRAIKITVDG PREPRNNECVYGNYPEIPLEEM PDADGVASTPSLNIQEP CSPATS SEAFTPKEGSPYKAPIYIPDDIPI PAEFELRESNMPGA
8218	38586	B	8273	385	3930	
8219	38587	A	8274	830	906	

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8220	38588	A	8275	483	971	ATMPGHFYLCETGSNSVSQAG VQ*HDFGSLQPPPGFKQFSCLS LLSSWDYRHMPRPANF/SVFL VEMGFYHVGQAGLGLLTSGDP PASASQSVGITGMSHHAGPTM KLLNPQSEVIFSPRNSHSTLLTP LSRHLPHPISTWCIHYAPLHT VSISAEAP
8221	38589	A	8276	1	2088	
8222	38590	A	8277	1	1822	MMTKDGLVFGQLRGSPILYVQ GLSRFRSFSVASGDSKTRHRE KLPLLEAGERDHNCYGSPQILA FQAICKIAKPGKEQSCSKLVGH TFDPLLIEARKPEERQKLPDPCV KWGGVGNFPPVKRVGDIRIFVS QGGKFSQAPEGPEVTSGSQGLE SKTLEVYPVFYCTVAELALNHN VQPSHSTLPFPQAEPPHSVATTT GPWGVLPGCCQCSLKAQGLFS QLVMNAACTGIHTSGQWAPLW PSTVPEMPKSSGLESCTPRTCF VLYPAVAKLLPRGTLAYSGKG CQNSSANHWDTQIHSPCHAA AAREYGGKSGISDSRLSPTLFSA SFSNMNLKLDKVFYKGCFCF EATAGANVLKIIRESKYKNTD DIDILSRQATPVIAQLAHEHSGH VAGMEVVFGFSNTDFHLPRQT WLQPLSHASLLAETNTESKND TTPQGDQPATWRLNSGYGYAF PACNASAKTIHGLTEVLYTVLV DGNHNLLTKLSLEENCLIQK CENLQQKLEQMAA/E*KSLRRK RATQEECLMHSNLKFKEKSAE YTALARQLEAALEEGRQKVAE EIEKMSSRESALQIKILDLETEL RKKNEEQNLVFKNEQ
8223	38591	A	8278	1	5103	MDESSVHSSVGDRHVDRVSTS QVAERTRCNKMWRIETKSPSG DNEGTVIEKKTRLSGQGFCFL QLSEGLQNLQAQRRKIKFREME DPSSRPLCSSLALCASVKPSA GFPQRPVKPLCVLGSGAGTG DAERSLQSSDPLKKQQPLARSL RGLCERIVLGGSGCGARGLRG AGGTALSVPGASRGFEGMFG LDQFEPQVNSRNAGQGERNFN ETGLSMNTHFKAPAFHTGGPPG PVDPAMSALGEPPIILGM
8224	38592	A	8279	1	783	
8225	38593	A	8280	888	4915	

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8226	38594	A	8281	94	757	APTGCLACNLLLCELGQVTSPL *ASAPKCVTVHN*PLCKALPRR *SSAWELS*MRKLRLRGVNFLR TDGLCFCISTRATPPSSARARCV STSLKPASLQLAVSYHHGSRSQ GCHLPAGREVCTSQSRGVRETS PWGC\EKGSPYAEGFPAVISLNP PSSSTAHDLPANKASASQPGSH LQCLSVHCTDDVGDARASV PTWRSLHSDISNRFGTFFVAALT
8227	38595	A	8282	2	374	
8228	38596	A	8283	260	500	
8229	38597	A	8284	98	828	RWASVFPHPPFYLPALLEKKT AERRGGAFSRNKQTAGPCGGT LQEEGSARTVGDSYGEASAGG FSCNKEEGNQRYREG*VTEML GVGYHRALLQLRGLDPS/PALS VT*SRTSGPRPSRLNKKTYCIPP RQDCYNNLAACLLQMEPVNYE RVREYSQKVLERQPDNAKALY RG/SGVAFFHLQDYDQARHYLL GCRE*AALKMPNVRRYPRLTR VRTQQPTHRKEKQLLPWACL VNKEERCSSS
8230	38598	A	8285	396	602	GNCGPEKERTCLRSPSWTPMPS PKQAVPVSSWPPGPHHQRCVP SRSSNFSKSSKSNSCDGNSSSS SS
8231	38599	A	8286	3	156	SVVSLSPHR*AIQILSGVAAGW GLSDGPSSPPSPSGARDTGSPG SSLGL
8232	38600	A	8287	32	515	ARGSWGPGAGARPPGTARRAA RCATGCGSRSSSHAPVSPRRA APSSVHPGGCHGPALPPSPRR VTQAADARRAAPPLRAASAAP SRRWSQAPT/K/RRLGYPPRP PAHPGPR/PPLRRMVSRSSEDP PRRLT*TGSETPKSTWRELSSRR RSLQSKAATR
8233	38601	A	8288	30	460	RRCPAQRGEIWQSGH\RALLSC SGLHPFQTSWLPVYTVRVKLPT QALAMVDAPPPTKLECPRLISV CCYAGSENFKPVDSLSSIGGS GGVGTRGNLLVCELRRPWDR SIWAGVASRFLRLSPSRFPLA*LG LSSYLTRKT

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8234	38602	A	8289	2	1094	RMSRISDDSRASQLDEFQECL SKFTTRYNSVRPLATLSYASDL YNGSSIVSISIEFDRDCDYFAIAGV TKKIKVVEYDVTVIQDAVDIHYP ENEMTCNSKISCISWASSYHK NLLASSDYEGTVILWDGFTGQR SKVYQEHEKRCWSVDFNLMDP KLLASGSDDAKVKLWSTNLDN SVASIEAKANVCCVKFSPSSRY HLAFG\CSDH\CVHYY\DLRNTK QPIMVFKGHRKAVSYAKFVSG EEIVSASTDSQLKLWNVGPV\. CLRSFKGHFNEKNFVGLASSG DYIACGSENNSLYLYYKALSKT LLTFKFDTVKSVLDKDR\EEDD TNEFVSAVCWRALTQMGES\N VLIAA*QFRVPIKVLELV
8235	38603	A	8290	1	667	MRIKATSEDGTVIAQAEYGSVD IGEEVLKKGFAEKCLASRTDI CEEKKLDPGQLVLRNLKSPIPL WGHRSNQSTFSRPKGHLSEKM TLDLKDENDAGNLITFPKESLA VGDFNLGSNVSLEKIKQDQKLI EENEKLTTEKDALLESYKALEL KVEQIAQELQQEKAAAVDLTN HLEYTLKTYIDTRMKNLAAKM EILKEMRHVDISVRFGKDLSDAI QVLG/SKGALLQLL*MD*R*Y GQNTVWLRRLKL/SEYVSEGN LIAQRNEMQQKLYMSVEDFILE VDESSLNKRKLTLDLSVSLEA VYGQAKEGANSDEILKKFYDW KCDKREEFTSVRSETDASLHLL *HGSKEP*RIKVMQTRR*FQIHI VKYCKRFIQRKGS LPQYKLSTR TVLS/SKKQLIEYLKKIPSV DHL LSIK/TDIEKLKSSTQMEIG*KE* FGKSQ MILMALKLRK*KKK*LK KGFAEKCLASRTDICEEKKLD PGQLVLRNLKSPIPLWGHRSNQ STFSRPKGHLSEKMTLDLKDEN DAGNLITFPKESLA VGDFNLGS NVSLEKIKQDQKLI EENEKLT EKDALLESYKALELKVEQIAQE LQQEKAAAVDLTNHLEYTLKT YIDTRMKNLAAKMEILKEMRH VDISVRFGKDLSDAIQVLG
8236	38604	A	8291	1	325	
8237	38605	A	8292	1	593	
8238	38606	A	8293	1	2013	

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8239	38607	A	8294	2	1427	LLARGAGRTNPAPPLMSCGPW GKFLKCCEVYKSGPYKVQ*EEI TIHSRAEAESTYQIKYEELQTLA GKHGDDLRCAT/T/EISEMNQNI SRLQAETEGKQGASLEAAIA DAEQWGELAIKDANTKLSELE AAMQRAKQDMA/RQLGEYQK LALDIEIATYRKLLLEGESRLES GMQNVSIHKKTTSGYAGAPARI VSLLQNELLSLEVGVKLGHTG KGEELGAPYSECSFGLCRRTVM LTQAPSSVVRNRNRNHTVNSG GSCLSASTVAIPAINDDSSAAMSA CSTISAQKRTCTACEPARKYK DTASHQEPAVCQPACQLETADP KGGGV LALPQPPSPGMLCWPY CRAHATDYFLANFFSEFPCHFL HRAGAAQTQATGDGMEHGQS RELPRKAPREESETSEEKSPNK WGPVSKQKKQLLDILTTHIRPT RGNAYTGLSTRKWKPRSEENA LMQPNKKDEKGLTQKLGL
8240	38608	A	8295	301	462	
8241	38609	A	8296	2	825	YPPSPGRSAAHVSTLYRTTP* WPDQRSAAPTAWAAS*SPSAR RRPSAESMVPREPL*YRPSAATS AATPAISPARALGAGAPCPLFR RRSGPFGRTSAIRPPSSAGKAVL FPPHGRPVWPVGR LARYATAS GWGAHI*ASSGASE/PAVVS VLP AGSGASPFHSASWDPPAHPAAA ASAAAVIPAL*RSGDRPPVLSFQ PLFWFLIRGDNVSFVLLRGLP CPSQAVTTRHRS LQKEKLKRNR KSCVNFMQSQVSVSKYSNLVK HHHFCIRPL
8242	38610	A	8297	3	251	
8243	38611	A	8298	208	307	
8244	38612	C	8299	18	197	
8245	38613	A	8300	1	1866	

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8246	38614	A	8301	2	2558	FEVLWSDSSITSVTKSSSEVTEFI SKLCQLYPEENLEKLIPCLAGPD AFYVERNHVLDLSGLRYLASLP SHVLKNDHVRRFLSTSSPPQQL QSPSPGNPSLSKVGTVMGVSGR PVCVAGIPSSQSGAQHHGQHP AGSAAPLPHCSHAGSAGSALA YRTQMDTSPAILMPSSLQTPQT QEQNGILDWLRKLRLHKYYPV FKQLSMEKFLSLTEEDLNKFES LTMGAKKKLKTQLELEKEKSE RRCLNPSAPPLVTSSGVARVPPT SHVGPVQSGRGSHAAELRVEV EQPHHQLPREGSSEYSSSSSSP MGVQAREESSDSAENDRRVEI HLESSDKEKPVMLLNHFTSSSA RPTAQVLPVQNEASSNPSGHP LPPQMLSAASHITPIRMLNSVH KPERGSADMKLLSSSVHSLLSL EERNKGSGRSSMKVDKSFGSA MMDVLPASAPHQPQVLSGLS ESSMSPTVSFGPRTKVVHAST LDRVLTAKQPALVETSTAA TGTPSTVLHAARPPIKLLSSSV PADSAISGQTSCPNNVQISVPPA IINPRTALYTANTKVAFSAMSS MPMGPLQGGFCANSNTASPSR HPSTSFANMATMPSCPAPSSSP ALSSVPESSFYSSSGGGGSTGNI PASNPNNHHHHHHQPPAPPQP APPPPGCIVCTSCGCSGSCGSSG LTVSYANYFQHPFSGPSVFTFPF
8247	38615	A	8302	2	266	YCGPL*SVWVARNPPGFAFVEF EDPRDAAGVV*ELDGRITLCPV PSWGHRP*DDYCRRGLPPRRRP PRRRNLSCSRSLYSPWTLSL
8248	38616	A	8303	37	535	ESWLVLGRRKAGRLIGACGFEP PHFLTLDLEMHRDSCPLADCKV YVGNLGNNGNKTELERAFFGY GPLRSVWVARNPPGFAFVEFED PRDAADAVRELDGRITLIGCARV REEVLSNGEKKK/SRNRGPPPS\W GRPPSENDNRKEESFPPRRRSP R\RRSFS\RSRSLSLF

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8249	38617	A	8304	2	668	EIAERRITQPAPPGPSRPSGPGPA GELGGPGTGRALCPADNGGLC CGCPLAVP/GPLAVPR/ALKPQR TSLSHPTSVTNNGRGVSQPGPR RHPGLPTQASTKPPQSRRDAAP LGGAGRGGPGSMAAARTPRGG GH*GVDGPGRRRPRDASRLGRLF RPRSRADPVP*P/PVAIGRDLPS PDDNGQRP*GAWKVSE/CPERR RVERLAAIGRLVFILPDFAVGRE
8250	38618	C	8305	101	183	
8251	38619	A	8307	329	399	RERET*SSINTTFIPGSVLQPDAS PSKTGTLTIPVTIPENTSQSQVI GTEGGKNASTSATRSYSSILP GVIALIVITLSVFLVGLYRMC WKAHPGTPENGNDQPQSDKES VKLFTGKTISHESGEHSA*GK
8252	38620	A	8308	192	537	KFPTSTPENGNDQ*PQSDKESV KLLTVKTIHESVILNQNKMDEI TEIEFRIWMAMKITENQKIETHS EESEEFNKTIQGMKYEIAILRKN KTDLTTELKNSPQEFHNTLEVLT AE
8253	38621	A	8309	1	789	
8254	38622	A	8310	1	423	EDIWFDDVDPADIEAAIGPEAA KIARKQLGQSEGSVSLSLVKEQ AFAGEELEVVQKEVAEMLKG RILVGHALHNDLKVLFLDHPKK KIRDTQKYKPKFSQVKSGRPSL RLLSEKILGLQVQQAHECSIQD AQAAMRLYVM
8255	38623	A	8311	1	1077	MGKAKVPASKRAPSPVAKPG PVKTLTRKKNKKKRFWKS REVSKKPASGPGAVVRPPKAPE DFSQNWKALQEMGSKKPKII QQNKKETSPQVKEEMPAGKD QEASRGSVPSGSKMDRRAPVPR TKASGTEHNKKGTERTNGDI VPERGDIEHKKRKAKVGQPQPH PPR/IDIWFDDVDPADIEAAIGPE AAKIARKHLTRALALDCEMVG VGPKGEESMAARVSIVNQYVK CVYDKYVKPTEPVTDYRTAVS GIRPENLKQGELEVVQKEVAE MLKGRILVGHALHNDLKVLFL DHPKKKIRDTQKYKPKFSQVKI QDAQAAMRLYVMVKKEWES MARDRRPLLTAPDHCSDDA
8256	38624	A	8312	3	640	

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8257	38625	A	8313	1	1274	MGKAKVPASKRAPSSPVAKPG PVKTLTRKKNKKKKRFWKS REVSKKPASGPGAVVRPPKAPE DFSQNWKALQEMGSKKKPKII QQNKKETSPQVKGEEMPAGKD QEASRGSVPSGSKMDRRAPVPR TKASGTEHNKKGTkertngdi VPERGDIEHKKRKAK\GQPQPH PPR/IDIWFDDVDPADIEAAIGPE AAKIARKQLGQSEGSVSLSLVK EQAFGGLTRALALDCEMVGV GPKGEESMAARVSIVNQYGKC VYDKYVKPTEPVTDYRTAVSGI RPENLKQGEELVVQKEVAEM LKGRILVGHALHNDLKVLFLD HPKKKIRDQTQYKPKFSQVKSG RPSLRLLSEKILGLQVQQAHC SIQDAQAAN*GCYVMVKEGVG RAWPETGAPCLTASRPLQ*RRL SSPALLAACPPRLQRQC
8258	38626	A	8314	2	414	
8259	38627	A	8315	1	621	
8260	38628	A	8316	1	885	MGEKPGPLLFSSAKPKNPQEGE HKDEGDHPNNSFSPCSAHDRC LQKHFAKIRDRSTSGGKMKVN GAPREDARPVNKGTYLVSTGG QTVAFTTGSWDQDDSESSLGC QEDSTALHPTSTSPGPSETVPPS LLPEATKRLLSLDFESFGQTQR NLSCPLCPAGVWQEKTLCEWR DAGGNRQAGVPQAPCMKSNN ALIVILGTVTLDAVGIGLVMPV LPG/SPALLQRQAEESPGRRTOG /RRVTTPTTASAPVAPMTAGAC RSTSPKFETGAPVGAR*RSMGR PGRMPGL*IKAPTWCPQVGRLL PSLLAPGTTKTQSPA/SGCQEDS TALHPTSTSPGPSETVPPSLLPE ATKRLLSLDFESFGQTQRNLSC PLCPAGVWQEKTLCEWRDAGG NRQAGVPQAPCMKSNNALIVIL GTVTLDAVGIGLVMPVLPGLLR DIVHSDSIASHYGVLLALYALM QFLCAPVLGALSDFRGRPVLL ASLLGATIDYAIMATTPVLWIY
8261	38629	A	8317	1	396	

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8262	38630	A	8318	186	2123	CPAHCWQEAMLSAWRLVMSP GGPCTQHPAPACHPSVLTTPRK AGEPRP*WPPCPA WGPLADSSK PHRWRPKPPASCRPLVRRPWGP QRTLTPTLTSHWRASIR*SWNW TPSSCFPQGLGAPRLSWPRAPC Q*ERRRNLKPWT*STSR*PPDQ GATMAPSTAPAPLSRPSAPFA VVASSFPETSPERHEAAVRASSS LGTRAGGTSALCPPQRVSP/HRP PNSPSISIPCMGSKASSPHGLGSP LVASPRLEKRLGGLAPQRGSRI SVLSASPVSDVSYMFGRTPHSP PLAKEHA\AAAPHSPTPWWTY PLC*STAAQN/RGSSPPQRTPGH QNSVQPGAASPSNPCPATRSNS QTLSDAPFTTCPEGPARDMQPT MKFVMDTSKYWFKPNITREQG CPGGAVSISDSRIVPAIELLRKE EPGAFVIRDSSSYRGSFGLALK VQEVPAQAQSRPGEDSNDLIRH FLIESSAKGVHLKGADEEPYFG SLSAFVCQHSIMALALPCKLTIP QRGCHTLYLSSVSVETLTGALA VQKAISTTTFERDILPTPTVVHFK VTEQGITLTDVQRKVFFRRHYP LTTLRFCGMDPEQRKWQKYCK PSWIFGFVAKSQTEPQENVCHL FAEYDMVQPASQVIGLVTALL QDAERM
8263	38631	A	8319	15	909	LHVSHPGHADARGGLLQPCAA PPLWLCRIQCPRWFQTPSQVF YHAATEHGGKDVYPGQCLWE GCEPFQRQRFSFITHLQAANCR/ EAQ/RSTPRAQKAIVNHPSAAL MALRRGSRNLVFRDFTDEKEG PITKHIRLTAALILKNIGKYSEC GRSWPRASRYQQGHQDLFILRS DLPSQVFIRDKLMERRNRRTGR TEKARIWEVTDRTVRTWIGEA VAAAAADGVTFSPVTPHTFR HSYAMHMLYAGIPLKVLQSLM GHKSISSTEYTKVFALDVAAR HRVQFAMPESDAVAMLKQLS

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8264	38632	A	8320	189	4419	KPGLFP*RVY*EYVFRLSQSLGE FHQF*FKRGQY/ATTSSPPFSPW ANIIRKA*TRC*CRWRFRFIMPFV MASMSA/GMLNELQQYCDEW QGGAAVVAQHVAPPPGIVEIDS EKFACQWLNAHFVNPDCSVS RAEMYSEYLSTCSKLARGGILT STGFYKCLRTVFPNHTVKRVED SSSNGQAHIHVVGVKRRAIPLPI QMYYYQQPVSSTSVVRVDSVPD VSPAPSPAGIPHSQTIGNHFQR TPVANQSSNLTA
8265	38633	A	8321	27	674	GPQNTPMPPSPSVRVQGPNSS QSPSPFGSSQPGDPMRKPQGNF MCLWQSCKKWFQTPSQVFYHA ATEHGGKDVYPGQCLWEGCEP FQRQRFSFITHLQDKHCSKDAL LAGLKQDEPGQAGSQKSSTKQ PTVGGTSSTPRAQKAIVNHPSA ALMALRRGSRNLVFRDFTDEK EGPITKHTPTNSCP*Y*KISGKY SECGSADWLKETMENNLSA
8266	38634	A	8322	16	341	PPGRGSAHPAARQLQTPGSAAP LS*HQGPASRGTPPGPIKARAP SKSRARGLRAAQRARLSARAR AGCA/PP*ARGAARKLGAPGTF QETLPPGTRDRKCCSGDAVVH
8267	38635	A	8323	1	400	MAEGMAMLRWTRLGTWPDDS FDEMSTLAVQQYTQQNIR/AQ DCSNTDKNLEPPEGQDADCHG F*APRWHCSASYVASSEFAGDD RRI*IPLDPWVKKFCECWCSGPT PFRE/CPRELN*HLKDGCSCRYL RARN
8268	38636	A	8324	3	179	ISWPSPSLLGQTAALCANGAGP AGTPPGRGPVSARFGRRGAAC VCSPSPSPLAPLSR*RFAVMW WQEA*RRGPRLPLLSSLPAAAG SGRAARAAAELPGGGRAGAR/P L/LLTPAQVQGESARG/AGAEG GRGTPGP/GCPLPAGRSLCQPG PRSP*TAALCANGAGPAGTTP GRGPVSARFGRRGAACVCSPPS PSPLAPLSR

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8269	38637	A	8325	1	1744	DFQERLSMKDQLIAQSLLEKQQ IYLEMAEMGGLEDLPQPRGLFR GGDPSETLQGEILKSAMSEIEG IQSLICRRLGSANGQAEDGGSST GPPRAETFAGYDCTNSPTKIV EAPGTES/DPRLPTVLESELVQRI QT/LSQLLLNLQAVIAHQDSY/V ETQRAAIQEREKQFRL/QSTRGN LLEQERQRNF/EKQREERAAL EKLQSQL/RHEQQRWERERQW QHQ/ELERAGARLQEREgear/ QURERLEQERAEERQ/RQAYQ HDLERLREAQRAAQPPS/HPPSF NGEGLEGPRVSML/PSGVGPEY AERPEVAR/RDSAPTENRLAKS DVPI/QLLSATNQFQRQAAVQQ/ QIPTKLAASTKGGKD/KGGKSR GSQRWESS/A*AGPPLRLGLEG ATGQALAAAGSQEIRDTCAILW RGNQKAQLASWLRPPHTGPVW SPGPKLR*STLHLLTSTLKTVG WPGALERARARRQRSLATWD QHSRTGTASF DLKQQLLNK/L MGKDESTSRNRRSLSPTCPGRH SPAPPPDPGFP/APSPPPADSPSE GFSLK/AGGTALLPGPPAPSLP/ ATPLSAKEDASKEDVIFSKRAV TQANH
8270	38638	A	8326	147	536	WAQEGSGRNTHQQYKILDVML KGLFKVCAGRGQLMAGPVFDL GTDG*TG VQLKDG\WSALPRPV LRTTRSSLAAPSLLF/YYFDHNS NWNLLIRWGIFCNQTGVFNQ GPHSPILSLVRTGVEVAREPSVG
8271	38639	A	8327	59	339	
8272	38640	A	8328	43	510	LLLWGGLRELTIMVEDEGEQM SIWVLDKDLGAPHLVLVGSM TARSRCWTPWRSSHATAATSE GEGWGVGVLIADRPGWASDEG DGE GGGGGLTSAEFGELAAV GEAGSAHPMF SFRPRYSTWCLT HIGQGGLELLTL*STRSASQSAG VTGMSH
8273	38641	A	8329	98	493	FFYFLFIYFFETESRSVTLAGVQ WYDLCSLQPLPRLKRFCSLSLP SSWDYRHPPHPANFCSFLVVT GFHHLGQAGLELLTS*S/IPSSAS QSAGITGVSHHARPGPLSLANN PRSQTRTSATVCPEQLGLD

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8274	38642	A	8330	3	328	HSAARRPSSRRSSPRPETSANS VNAGWNQDPPTHVIRFARSMAT AGSTRYR*GLHAAPSPHPRRP RSPPGAE*A/RREARSLKR*SPPC HPTKKATMCRCIIVPLIHK
8275	38643	A	8331	24	593	FEQQWGWAAAAAPPGKAHTR *TGRSPHRPHRTQPR*NPSGTA APGPVPS*AGSSH*AGSG*RAW GPGSSRR*RSCT*RLRSRGRPPR *GPSRR*VRSARPSRA*RAPPGS HRPGCGAAAPAPAASAPARAP WAGADSSAPPRTAD*SLPTRVC CSLSALHTGSESGDLGPGTQIEG KQNYSVTVWFLAR
8276	38644	A	8332	24	832	FEQQWGWAAAA/CSSRQSTYSL RTGRSPHRPHRTQPR*NPSGTA APGPVPS*AGSSH*AGSG*RAW GPGSSRR*RSCT*RLRSRGRP/TS MRAFSPLSAIRSPKSGRDAHHQ ASHRPGCGAAAPAPAASAPAR APWAGADSKRASSYSRLEVLR VIPEAAAWTSAGSFRT*/PENLPI PVNEIMLLSNCPGRMGSVPLKR RLILGVRVLGERGPGAWCTCG PPTSMCTGALDLVSWAGRGMP WASQRR/PQGDRVRDKPGTCFL PSAVPVLPCV
8277	38645	C	8333	153	269	
8278	38646	A	8334	615	1275	QKRKTFNTTKCYNKEKGSWPR WPTGSS*CAQLSWRGMEGTSK YRTF/ILKHGQEIPTSIEPTPPGP/S SLTCRATWSLSRAAPQPHMKPR EP*ILSIYVAPSPSTIEKPSIGERF AIFITLLMRNGDLGEASCDVAK ALRQPWGKAQVEKNQLSQTCK PAMWHFESQNPALLIVRECLEG WKAYPQSTKEERLLHPEGAG FTSSSQEKYVRVRGQRLWPTPF FSLQMIDRKERHLIPPVNIKKR GVGQDGRLEAVSVHSSHGEEW KGQVNTPESTETSRSGDPIMNP LHQGLKSDMQSYMESQQSSPS ATHEAQGALDTQASWKKQQQ LRKSRAISSPQADGVQHGEA RHCHDVLKRDRTSWPCKMSS LAEVVAAADTWLLDNGTMQA TGRAAQVREQGKGM DLGQYIS CYLMTLSRAIKQKENKKVCFQ RLGKPRVKTASVQKK

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8279	38647	A	8335	423	998	PPSAVPHDHSSPART*PQSLSVI TAELEPVRAPSLIAFFHGHSA MCPFRWYRSRSLKQQRILAH PVNTFGIDRRHTIKFCLSAKQRP YPTITIRWQLSDNMVYTEKH IRI ISVTAAAIHPVIGSFPIPG/PI RALSTFLPVHIQRL*GVHFP SF SCRAGAGVL*SASWRQQVQ RQ EQPVLRRRQQ
8280	38648	A	8336	2	218	HPSPSPGLKHRSSLGSPNPL LL LPSGSFSLLPAGHSHGDGPS AS QMH*FQNQTHPVP*PDPAS LPA VQSHQ
8281	38649	A	8337	76	129	
8282	38650	C	8338	1	410	
8283	38651	A	8339	651	741	
8284	38652	A	8340	1	612	
8285	38653	C	8341	1	729	
8286	38654	B	8342	1	313	
8287	38655	A	8343	705	990	TRSSCWGKEASLGDGNRGV VA ALHHFTGAAARQHSGSPLE RGP HPQL*SPRS*VEGHWLEI/L QA* S*VLPQKQPHQPARCWQL SH WLPRPALLC
8288	38656	B	8344	1	588	
8289	38657	A	8345	220	678	MNAIPVASPCMVCSLIVH VLGS RPM*PW*RPTRFQWSEVQ E/V MELTTMRPRQPPPPPPPP PP*QQ QQQQQQQQQQQE*L*LA ATPR APGTLAQGSLTPSQIFSA* RLKT DAAGSPGSPQTITDAEL RVTLT VEGKSVPFWAVLPQSFTD SPH
8290	38658	C	8346	1	411	
8291	38659	C	8347	1	534	
8292	38660	B	8348	1	774	
8293	38661	B	8349	1	705	
8294	38662	A	8350	1	297	MPGHQKAPLRPAVSKK\ES MLE KGKIK*LLKPEGILPISEPP SNRIF ACWGKPAWTACCNSLRARR* R AISCCPSHW*KEKPPWRPI RKPP LPARWPIH
8295	38663	A	8351	616	988	DPQLQAGSGHIPGRNVCP GERI CWRGTPD/SDPSTPTY*PP LEKE VAQGRDLIHASGCLWS*IP LEA LQGPQGCPQFSQVCCIPV IPTVE MKQGRQQLASDFDQDQD LEFY EILSWKPGILIIPP

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8296	38664	A	8352	1	1668	MELVPEEATAVSARAYTGRWP LDAAARTILVTAPGVGHTNIVL CGQASLDAYIKSICLKKEGRKE GKKKGKGRKERKRDYGGKEKK RKKGRKKGRRKKEKKKKEREK ERRKEEKEGKKRKKEKERKKE KERKKLSIGKGVVYCLSSNTQK KQVSQTKIRVISTILFILAGCIVF VTIPAVIFKYIEGWTALESIFYV VVTLTTVGFGDFVAAHPSDHL CWVIVTCKGKYLLPDSPQEKAT DFSGVAQKRNEPQKPL/IWC/W ELRSYPTALMMQERVV*KEKP KAAAPNRRGLGTEKLEF*R*EV AAAVEPHAVLSMIGDWLRVLS KKTKEE/VCRPPLFKSPSPNLRL LGVAHHVGEIKAHAAEWKAN VTAEFRETRRRLSVEIHDKLQR AATIRSMERRRLGLDQRAHSLD MLSPEKRSVFAALDTGRFKASS QESINNRPNLRLKGPEQLNKH GQGASEDNIINKFGSTSRLTKR KNKDLKKTLPEDVQKIYKTFRN YSLDEEKKEEETKMCNSDNSS TAMLTDCIQQHALENGMIPTD TKDREPENNSLLEDNRN
8297	38665	A	8353	1	418	
8298	38666	A	8354	251	394	GAQVPTLLVGVLTVTISTVQNL AISLLGKAK*GEGILSVSGRMY RVL
8299	38667	A	8355	107	250	EEGHLLDPRMVDPMMACTM QLEKLQTLNASL*KQLGGGLYL AKPQG
8300	38668	A	8356	331	893	SITENCENKNPIPHVENKDIGTK YNSLKLPEHIRAEVMQPSKLD* VNP/LPSTCKERFVMQSHLART VGSSICNL*MSP/CFGIW*QLAE ANPAKCFP/GCWKTNSCTSSML CSKYVTPNGTVV*ITREGPISDD SILRFLLSMETKRMQGLLVSTA QPKGHQSSYQLHKGPEHIERS SSQPPVAAFQIH
8301	38669	A	8357	2	416	SGFRYGSDIVPFSKVDEEQMKY KSEGKCFSVLGFCKSSQVQRRF FMGNQVLK\PFMEDLRQYMFSS LKNSKKYAPTEAQLNAADALI DSMSLAKKDEKTDLTLEDLFTT KIPNPRFQRLFQCLLHRALHPLE PLPSIQQ
8302	38670	A	8358	1	2130	
8303	38671	A	8359	1	1152	

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8304	38672	A	8360	1	320	FKGTAAPWPLSFARAAAGRQA GTDTRPSLRVRFPRERSARQKG RGRSVRLSAKSPPAKVETKPSG GSRTA*IFRQRSKQGKMGAKG KQAKWLLILRALICFSLSER
8305	38673	B	8361	1	1231	
8306	38674	A	8362	1	2276	GGRPKRLRTGNMVRSGNKA AVLCMDVGFTMSNSIPGIESPFEQ AKKVITMFVQRQVFAENKDEIA LVLFGTGTDNPLSGGDQYQNI TVHRHMLPDLLEDIESKIQP GSQQADFLDALIVSMDVIQHET IGKKFEKRHIEIFTDLSSRFKSKSQ LDIIHSLKKCDISLQFFLPFSLG KEDGSGDRGDGPRLGGHGSPF PLKGITEQQKEGLEIVKMVMIS LEGEDGLDEIYSFESLRKLCVF KKIERHSIHWPCRLTIGSNLSIRI AAYKSILQERVKKTWTVVDAK TLKKEDIQKETVYCLNDDDETE VLKEDIQGFYGSDIVPFSKVD EEQMKYKSEGKCFSVLGFKCSS QVQRRFFMGNQVLKVFAARDD EAAVALSSLIHALDDLDMVAI VRYAYDKRANPQVGVAFPHIK HNYECLVYVQLPFMEDLRQY MFSSLKNSKKYAPTR/EAQLNA VDALIDMSLA\AKKDEEGQTPL KDLFPTTKIPNPSIFRGLFQCLL AQELLHPR\EAFFYPISGRHIWE YAGILPAEGGQRKSSGFPLS*N* RTLFFL*FEAKEKGFKWTAQGI FQQQPWKVGPTAKKLKTGARG EPTFSVSSLAEGSVTSVGSVNPA ENFRVLVKQKKASFEEASNQLI NHIEQFLDTNETPYFMKSIDCIR AFREEAIKFSEEQRFNFLKAL QEKVEIKQLNHFWEIFVVDGIT

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8307	38675	A	8363	624	1992	GRKVVVVLPPPLGNQSTPGGIC LSAQLPL*RD**SASARCSSPGS *TSPPSYFLPDRGPGRALQRFS RSPSSPGGNPA\SAAPSPKSKLLL GPPG\AAAATAAAAAGAKPELRH RLPPSSATTASRVRACHFLLAS AAATPAFSPPPPP\PASPSQRT KEVQRAGKAAESCPAAPELLGF GGSRDSAGELGGLSSDACV/PD SSEPGVRRPARRRTLAAHALTHA STHRTLPGSCARVAVPVALCK GGFT*PIFSPQYVTNTYPGEEGA RLGVLLIGREQTVSAILLGGSRSK APTTTVAVASAPPVTAAGR\TP HASIRIPRMLSKPSPPQAL*K GVMAPAQCPPARRGQAGLEGT \GFGKSPTRPHQLTAASSPCNGL IRIRQGQGGGKGRRWRGSSGDP GAWYCFRGRRRGPSCPSLRTAT LIPGLGGHGGSGDAASPLLGT RDGGPEAHLGKE
8308	38676	A	8364	123	248	
8309	38677	A	8365	1	540	MLEALGALNKPESSRPLIPELHL ASTAAANLGEHPNQRLKFAS QETPEESANAVPHYHKLCNRVS HVWGNRRGQHIRTMDNRP\I GKTTFV*IIVSPLALLALHWS DSQVRPAVL/QP/YSHGTGTP*W RSSSPCAASST*KSPYP*CH*QR LSQSPSA\FRPTLRRLSRSTRCRS WRRK

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8310	38678	A	8366	31	1429	RETRSCWAHYHAESSKHQKAK LKDSRKARRSIELIGPGSSQKGG DICSLIHLSSKLGILCYSKTGNM GGWEGMQLRVSSSENSMGKSS RERAAADLPQGSCWHELPGRLLI NTRISLKPRHVWNLSSVLCQVV KKVKSMQMFHMPITSAMQGD RLGICVTQFDPKLLERGLVCAP ESLHTVHAALISVEKIPYFRGPL QTKAKFHITVGHETVMGRLMF FSPAPDNFDQEPILDSFNFSQEY LFQEQLYLSKDLTPAVTDNDEA DKKAGQATEGHCPRQQWALV EFEKPV/YLPSAVPGDWLQARC GHS\PNTCRLAFHGGQSCSTG*RT GTTPTASCPG*RCTS*STSMGLV ERAMDDYSVIGRSLFKKETNIQ LFVGLKVHLSTGELGHDSAFGQ SGKFKIHIPGGLSPESKKDPDTP PSKTGPGWPVGGQPGRRRSPSG ANPHKMGWLTRPFKRYVFDTH KRMVQSP
8311	38679	A	8367	3	119	RSPREGGHRGPSSGGGRCRRR PGWAGNEAM*PDRRARVVGIE VPAAEEGGAAVAQDGLGMKR CSLLRDLL
8312	38680	A	8368	3	389	SFATHTAGPQPPAA/PAPKRMA ARASWGRNPPRAPVRTSAAAA RAAGTRRPAPARVACPLPAGPG SPRRPPRAARTRRARRRPGPGR AAQQSAGRRWTPPAPAPSGASF AAPAAGSASPPSHRRSAPGGGS TQSSLLSPSSALHSSPPSRPWA ARHERSSWS*/PRSALPPTSTEP/ GPGPRRAPVLGTRSCGRGAGQL E*EA*GAA*APPPLGWTP*LLCV HVTLGNAVSHWVSCGAAPPHG GVGVGYRARSREGGGHVRPA/ RTREVPPSPRMGWNEAM*PFK* VSSRWPLRLPSRGMAAPRGA AAGGARRVEGWEGASLLSGSA PGSARWPRAAPAPASQVGARC AAGAPCPLRPRVWRRGAVGAE NAPSELAASTPAG/GGRGAGSG SSDLAGRGAVAAARFPGG*GHSR QQHGAEKDGGQGFLGSQPPPR SCAHQRRRGACSGNAAPSSSAR RMSASSRSRQPEKATQSRNSA RSSAARPRSRSTAVSRAQVDTA SSCAFWRVFCSSCRRFCESAEP TVSTRWW

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8313	38681	A	8369	3	1130	LDFQHHNYKAMRKLKQVQE QCPNITRIYSIGKSYQGLKLYV MEMSDKPGEHE/LGYWHGEW GEVGTGQGPRHEPAASPHVSPG EPEVRYVAGMHGNEALGRELL LLLMQFLCHEFLRGNPRVTRLL SEMRIHLLPSMNPBGYEIA YHR GSELVGWAEGRWNNQSIDLNH NFADLNTPLWEAQDDGKVPHI VPNHHLPLPTYTLPNATVSILR AAVEVLWGADPCLCLLPLLTCP IQVAPETRAVIKWMKRIPFVLS ANLHGGEVVSYPFDMTRTPW AARELTPTDDAVFRWLSTVY AGSNLAMQDTSRRPCHSQDFS VHGNIINGADWHTVPGSMNDF SYLHTNCFEVTVELFCDMFPH ENELPHEWENNTDA
8314	38682	A	8370	1	2229	MWGLLLALAAFAVGPALGA PRNSVLGLAQPGTTKVPGSTPA LHSSPAQPPAETANGTSEQHVR IRVIKKKKVIMKKRKKLTLTRP TPLVTAGPLVTPTPAGTLDPAE KQETGCPPLGLESRLVSDSRLE ASSQSFGGLGPHRGRLNIQSGLE DGDLYDGAWCAEEQDADPWF QVDAGHPTRFSGVITQGRNSV WRYDWTSTYKVQFSNDSRTW WGSRNHSSGMDAVFPANSDE TPVLNLLPEPQVARFIRLLPQT WLQGGAPCLRAEILACPVSDPN DLFLEAPASGSSDPLDFQHHNY KAMRKLKQVQECPNITRIY\ RIGKSYQGLKVYVEMSDKPG EHELGEPEVRYVAGMHGNEAL GRELLLLLMQFLCHEFLRGNP RVTRLLSEMRIFLLPSMNPBGY EIALHRSS*LVGLSEGRWNNQS IDLNHNFADLNTPLWEAQDDG KVPHIVPNHHLPLPTYTLPNA TVAPETRAVIKWMKRIPFVLSA NLHGGEVVSYPFDMTRTPWA ARELTPTDDAVFRWLSTVYA GSNLAMQDTSRRPCHSQDFS\ NGNIINGADWHTVPG\SMNDFS YLHTNCFEVTVELSCDKFPPEE* ICPKEWENNKDALLTYLEQVR MGIAGVVRDKDELGIADAVIA VDGINHDVTTALGPGIWRLA* PPGDYIMVDLPSSEGYHSVTRN

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8315	38683	A	8372	409	517	HFRSAGVCW*PPPLSVHGPR*H FRSAGVCWSSTPDPVCLGITSR GCRTAKIAAFSFL
8316	38684	A	8373	957	1230	
8317	38685	A	8374	1	2658	MVEEVLLDNILKSVFRLGSILPI TFSFPSDSQGPLLQVCRSLLEIH SRPCLPGYHQWRLQNSKDCCCL FLPLEASSQRGTCQMPAGALFY KVSVDPFWEVSSSQETWGSIGH LRRQSVPYQSSSAVLGDLFFSS EPACKNKSAEAVPTAAPSPRDA LSREESREAVWPQRLSHAPM GSAQLELPGGFVYTVRRKLPTQ ASVMLDAPPATKLEHPRSSSDC CVGSKNFKPVDLSLLGSMGVG SVELDHLAPWLQPPFQESERFC LSGVVPVSPPLSEEINHALPKATV MASLGAVARKDNADSLHVPPP TPLFASRPVTALKYWQAPREDL QPFTRVTLHWGKGNDQTFWGL VDTSSSELTLTPNDPKHHYGPIK VGAYGGQVINGVFAHIQLRVN PMGHWTRPLVIFPVPERKISIDI LSSWQNHIGSLIGRKTGDSWR MTVGYRKLNQVVTPIAAAVPD VSMLEQINPSPESECLKMSHQI TMRPELPIMNWVLSDPSSHEL YAQQHFIIKWKWYICDRAPAGS ESTTSPFITQWVHEQSGYGDRD GGYTWAQQHRLPLTKNDLAM AT/AECPISQQ/QRPTLSP*HGV/I PRGDQPATWWRVDIAPLPSW KGQRRFFTRIDTYSYKFIYPAP NASAKNTICGLMECLIHCHGIP HSIASDEGTHFIAKEVQQWAHA YRIHWSYHVPHHPEGWGKVLQ
8318	38686	B	8375	1	3258	
8319	38687	A	8376	3	196	DWESCQNC*PQQPRLHGTHW DPC*DME/CPSVCPQSPCPSPLR DQWTIPCPDPLSPQTMAAGRW
8320	38688	A	8377	248	423	
8321	38689	A	8378	407	683	LSSYCVHAGCYPREAAMRMISF SPSQRWKPFGESWRPPARRGT CTPGAHPRPSPRAAGPAHRP/ PPP/PSELPRAPQRPNRRPG NSGPV

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8322	38690	A	8379	11	888	TGKLHTSVICNSTELTSWDSRR LFLKGKPLLSAGAGVNVMPST APFPAPCKGSLRGNPSRPTHPS/ RSPQLERDTGGASFRVDEGEER GASSGGS\RDTEGGSGAVPFGE SWRPPARRGTCTPGAHPRPSPS PRAAGPAHRP/PPP/PSSELPRAP Q\GPEAPTLGQPHGRGLFPPLFK LSKLYWPLGETRSRPRPRPYCQ SPGPGVTERGRRWSAPRAPGAP RSPRWRRQSGPGALPRPRVNPC IQHGSEASYAPAL*WALRIPQG GNTSSADEPADFTPNQQADQM PCLHSCSCG
8323	38691	A	8380	1	3135	
8324	38692	A	8381	44	2279	RQTVGDAQPHHPPQPPRPSFP PFPALPCTPAPQLPPSPSCLREEF PSSPMGQTPGTWSSSGGPWTSP PHSSSRRLASPLAPLSVIPSTSQT MARSSSQSQTTRFSPTPTHSSQQ ASQAGTLWPWWLRSGMTLTSP LVGGPHFIRNTRRSMVNTAC*S SRPSLGLERSQTTGATRPGGP*R SRGSMPTPILPSGPSGATPTKPS SPRTGAGPMPCFSTRAVGCST WPSAQATRCSWASLVEMAISK TAH*CPSQCGRGIALIDS*IPTQA SKGCSSTGYTGKKGPTTVSSAC SG*RASLGGPAGAGTRSPALVP GSRDDGTYDSNPSA*VAGASA VGSCAASPLGEEACAAATGPGE SFSEGWHEQ/TS LAVPGTGAT ELVLPLEG/HSPTSVPCTSRGGP TWAVATYRPPSPPGCSGTPTSP PWMVSVTPSMGWGTSCWSGP KTGTTPSCFRAAPPRLAQPRPPT SSPLRLST/ASSSLGPVTVQWLL EPHDAIRVLLDNQTVTFQPDHE DGGGQETFNATGVLLSRNGS\G SRPASTAGPPSR*SRSPSTSTPP ASRPSTRTARRGSWGSGITIQRT TSGCPMAPPFPQGALRRCFSTL E*PGRSTGQASLARGMTSCLPT SPLFSTHNCKKTAPGLNI*SPTV TEIAHASMTWPWCATQASDFTR GKSVKTTSRRTPPSISTRPPSMV VV*LKPTRGRPR*FSTPAMLRM

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8325	38693	A	8382	1	2900	MVWGFTCSTTATLEGQSTAAS SRTSNQDISASSQNHQTKSTETT SKAQTDLTQMMTSTLFSSPSV HNVMETVTQETAPPDEMTTSP SSVTNTLMMTSKTITMTTSTDS TLGNTEETSTAGTESSTPVTSV SITAGQEGQSRTTTSWRTSIQDTS ASSQNHWTRSTQTTRESQTSTL THRTTSTPSFSPSVHNVGTVSQ KTSPSGETATSSLCSVTNTSMM TSEKITVTTSTGSTLGNPGETSS VPVTGSLMP
8326	38694	A	8383	3	468	SSPPLGHPRPISQSCPRPAVSCSR GPSALLCRPLLPEDAP/P*GSS WP/EGPLWGPRYPSVSVGNH WSGAGVADE/PAAPSRPAGARR APSGGRPAAARCSRRRASRSSR PGPPAGRAGR*ACPAAARSABA AAPRPPGAP*CGSASSATAPAA APP
8327	38695	A	8384	3	1319	DSSRLCSRSSRGHTVGLWGQS PGLGTKGRGGGG*EDPPGTPR GQQDPSHSAKQ/PPAGLPAGVK WGPS\SSPPSPPPPAKRELQGR PKFGRCSEGRAGDPGPS/GCPR AKQTHSLGTAVPVVVIYPPVH ALSPAANRTLN*NIISSQLGTGP MVPGE*HGPRGHA*PRHPLPK DPPQG/PAQR*RGCRSEVQRRP GTL*GSPP/GNSHNLPAAMPPR *PPTAR/PQFPNPQDPRPLGQSSS EPLPRCPKTLCKTRHPDLRGRG KQPRGWAQVPPGEVFGGNGA QLEA*EGARMSASP*P*SLESSD TTASPPSQGLFTAQKGLWGPQR RLGALWLGRRESEKTSWRLQ SQVYWSCREEVEKCSRQGARL GQRRGWENVLGKSGSASECLS CPFCASLLAMPSGCPWELSKVA QCFPLKTGHPGPQEGSNNLKVT QQS

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8328	38696	A	8385	1	771	HSLIHS LTHSLPSPVQSPA WLR PLCLSAPAT*ATA/CRVCLPGSC DSCSDSWQVDDCPESCCEPPCC APSCCAPCLTLVCTPVSCVSS PCCQAACEPSPCQSGCTSSCTPS CCQSSCQPACCTSSPCQQACC VPVCKPVCCVPVCKPVCKP ICCVPVCSGASSSCCQSSRQPA CCTTSCCRPSSSVSLLCRPVCRS TCCVPIPSCCAPASTCQPSCCRP ASCVSLLCRPTCSRLSSACCGLS SGQKSSC
8329	38697	A	8386	1	453	AQSLGRARPWRGASSGRVPDS\ RLE*TPTVCLA/PEHGIVAATAS LGTFLPTQWEGHNGCYQRS LFP PQSMPTPPCPASETP/PVFRYRPP PSPGSSPRSIHAHPVPLGS\SVNP PHPEVWNL PCTWKRLATSLQQ KFTFGPKLGITNVDSDSL S
8330	38698	A	8387	39	630	IGTWRFGGSDRQEGQSRQGN C EANDWPVSTALA\KPRGATGK NKSPGNDPAAA IATAGAAATA GPGSPCSLQN/RPHLLPFIS*APP EG*TPSTQDRPWYSAGAA*ASV KCR TGAVQKQLL*NR RFP GS PAPAQTADPGRGGGRGTGS/GV PSTGSSSDWQERPWPCGGMEPP RLRCLLRCSGSIHSPTALQSLRN HQ
8331	38699	B	8388	1	2673	
8332	38700	A	8389	10	281	TTSDPYHPAPEIGLG*SPN/GGP MQGDLPGASGKEVSFL*GNVN EDIHNSGCVWQPSCDHLARQP KNKAVTMETKKRQKDTGSSLF SSSCS
8333	38701	A	8390	3	416	EYGQQCQCHKRPRGPF GFHSPG PRGGSYISDL SGQESPEAGGFP PRISALRPKSNCSFLRPRGRGS* YPAAGRPRAPGGPALQLSPR/PH PAAPPCRAAPQPKPPRRDVEPA P/PKLHPPP/GGPAPRRQGQDLP GRLQP

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8334	38702	A	8391	98	1286	TMPPTRFLAHLDPQAYVCFCCV EGKERNLSRSKHTSPHSSTPAH LLSKPPRSSEVVYHSQVLPGTP RPTSQLHLELVLPVFARLPGHR GIEREQSSPYS/RRGHHRGYTEE D*VNS**DGVEPYGKVAAAAG PQRGRGYCCPWRRQRHGRHR/ RRPPIALQRRQ/PARTPSARPPIA LQRRQ/QARTSPRPPIALQRRQ RHGRHRPRP/RHRSAEKTTART PSPRPPIALQRRQRHGRHRHGH HRSAEKTTARTSPRPPIALQRR QRHGRHRPRPIALQRRQRHGR HRPRPIALQRRQRHGRHRPWP PIALQRRQRHGRHRPWPITLQ RT*RHRCHRHGHPL/PLQRT*Q HGCHRPWPPIALQRT*/PAWTP AMATHRSTKKITAWTPSPRPPI ALQRT
8335	38703	B	8392	128	457	
8336	38704	A	8393	348	1355	GNEGKAGTSSCWDPKPAAPAV ASSLAS*GASNSTPSAAGSTVA SASWLVESWSPGVTVVGVTEG SSKLGPMLLSTSTPDEAWSPSS CLLLVAPGVWLLPEAGFLLGIH SQGAAPPSPSSCFSTSSFSLS SSSSSSSLPMATPCDLGFSKCG SRLSPPAKALLEDALTPRGGA* AWMRDRASIGADPVWLCPSLP SSFLCFSCLKAVCTSSA/PPCYTT GFLSPTQKTKPSKQGLGVCSSQ VSRHPALGQLLDIAEDKSPPH SGSTICSLWLSSSRAPCDRCTSR PSSKVQGYLCQQDSRSRTRAG WKTPTVVGRHVPVKIEKESIRP ANFG
8337	38705	C	8394	154	219	

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8338	38706	A	8395	3	1054	LYLKVCYI*KELFEFSNLYKHPS GEEVWERILRV*DNGGRNIKL YQAEFIDLGPVSRDSAFNVAAQ GVKKGSNRLFPWLAEIWITRWP TVSELEMPDLPWFNVEEGIKRL REIGMVEWISHFRCTHPSWKGP EDIPLTNALQNRVRAAPASLK SLVIAL\FCMSDATAGTAVTQL QNLNTMGIIGSRGVRDQVVAL NHQRQVGVANRQGTTPR/QRGT KKRTR*PGQAKRPGPKERGTRS HAYAHTSVTTTPKNNRHDTRPS QRTPPQKRDAQHQETETPTTP NTSRPPSHVSFFRSKKRRRRPQ HEERNKRTRTEEEARERNRAN KDDTKRQPPKKTRENRRLWS
8339	38707	A	8396	140	398	
8340	38708	B	8397	15	192	
8341	38709	A	8398	1	1167	AGTARRAPESSRRRAVAAGHPE TMGKLVALVLLGVGLSLVGEM FLAFRERVNASREVEPV\EPENC HLIEELESSEIDILPSGLAFISS GLKYPGMPNFAPDEPGKIFLMD LNEQNPRQALESIGGFDEKELF NPHGVISIFIDKDNTVYLYVVNH PHMEVHCGRIF*ILREQQRSSGY YL\KTIKTWNFFKS\NDIVVLGP E\QFYATRDHYFTNSLLSFFEMI L\DLRWTYVLFYR\PREVK\VVA KGFCSA\NGI\TVLSQTQKYVY V\ADVAA\KNIHIMEKHNDWDL TQLKVIQLGTLVDNLTVDPAIT GDI\LAGCHPNPMKLLNYPED PP\GSEVLRIQ\NVLSSEPRVSTG YANNNGS\VLQGT LWASVYHGK ILIGTVFHKTLYCEL

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8342	38710	A	8399	89	1685	KGPLLLSLPCRAGAMAETSLAT GACGEAMAAAEGSSGPAGLTL GRSFSNYRPFEPQAFGASSPS\W RLDGA FSGNERAEGCKVPQEG RLLKLLAG\LTRPADVRPP\LG RG \LVGGQEEASQEAGLPAGAGPS PTFPALGIGMDSCVIPLRHGGLS LVQTTDFFYPLVEDPYMMGRIA CANVLS DLYAMGITECDNMLM LLSVSQSMSEEEREKV TPLMVK GFRDAAEEGGTAVTVGQTVVN PWDLLIGGVATCSIANQFEFIM PDSAVVGDVL\VLTKPFRNPGL LFNAHQWL G*FLERWD*S*RW WFSREE\VEL\AYQEA\MFNMA TLNQNC CRV*MHTFNAHAATD ITGFG\ILGHSQNL\AKQQRNEV SFVIHNLPIIAKMAAVSKRASGT VWGFFQGTSAETSGGITGFCLP R\EQGGLAFCS\EIQLPKYGRGS PKAWIVGIVEKGNRTAPDPLTS PRVIEV\LRPG\ATAAVLAP\DSS NALLLSLAREIERTEVVWTL EP LSTITDGSQELIVKKFPKKAACI VYPAALSR

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8343	38711	A	8400	30	2391	ARGRPLLAARSSRPGPRLPFK RAGPAPAAPHRGDQEARWFSG AAPSRPPAPRFSGPAAIFLSAQ GPPSGAMQPTLLLSLLGAVGLA AVNSMPVDNRNHNEGMVTRCI IEVLSNALSKSSAPPITPECRQV LKTSRKDVKDKETTENENTKFE VRLLRDPADASEAHSSSRGEA GAPGEEDIQGPTKADTEKWAE GGGHSRERADEPQWSLYPSDS QVSEEVKTRHSEKSQREDEEEE EGENYQKGERGEDSSEEKHLLEE PGETQNAFLNERKQASAIKKEE LVARSETHAAGHSQEKTHSRE KSS/QFSAA*EAGSQENRPQESK GQPRSQEKSEEGDEDATSEVDK RRTRPRHHHGRSRPDRSSIQGG SFPSEEKGHPQEESEESNVSM ASLGEKRDHHSTHYRASEEEDPD YGEEIKGYPGVQAPEDLEWER YRGRGSEEYRAPRPQSEESWDE EDKRNYPSELDKMAHGYGEE SEEERGLEPGKGRHHRGRGGEP RAYFMSDTREEKRFLGEGHHR VQENQMDKARRHPQGA WKEL DRNYLNYGEEGAPG\K WQQQG VLQDTK\ENRVEARFQDKQYSS HHTAEKRKRLGELFNPPYDPL QWKSSHLERRDNMIDNFLEGE EENELTLNEKNFFPEYNYDWW EKKPFSEDVNWGYEKRNLARV PKLDLKRQYDRVAQLDQLLHY

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8344	38712	A	8401	73	1922	ILPVPIIP/CRQVLKTSKCPTRQA DLGHCSDPSCSYSLHITFPADASE AHSSSRGEAGAPGEEDIQGPT KADTEKWAEGGGHSRERADEP QWSLYPSDSQVSEEVKTRHSEK SQREDEEEEEGENYQKGERGE DSSEKHLLEPGETQNAFLNER KQASAIKKEELVARSETHAAGH SQEKTHSREKSSQESGEETGSQ ENHPQESKGQPRSQESEESEE DATSEVDKRRTRPRHHHPRSR PDRSSQGGSLPSEKGLPQESEE ESNVSMASLGEKRDHHSTHYR ASEEEPEYGEGNKRGPVQVQA PEDLEWERYRGRGSEEYRAPRP QSEESWDEEDKRNYPSELDK MAHGYGESEEEERGLEPGKGR HHRGRGGEPRAYFMS\DTREEK RFFGEGHHRVQ\ENQMDKARR HPQGA WKELDRNFLNYGEEG APGKWQQQDGLQDT\KENREE A*VFKINHFS\SHHTAEKRKRLG ELFNPYYDPLQWKSSHFERRDN MNDNFLEGEENELTLNEKNFF PEYNYDWWEEKPFSEVDN WG YEKRNLAR\VPKMDLKRQYDR VAQLDQLLHYRKKS\EFPDFY DSEEPVSTHQEAENEKDRADQT
8345	38713	A	8402	1	381	
8346	38714	A	8403	1	444	MKLIVGIGGMTNGGKTTLTNSL LRALPNCCVIHQDDFFKVPALA RGVLES LDMEAMLDTVQAWLS SPQKFARAHGVSVQPEASDTHI LLLEGFLLYSYKPLVDLYSRRY FLTVPYEECKW/KEKYPQLHSP *SPRPLRWPRVAHVPEV
8347	38715	A	8404	3	421	
8348	38716	A	8405	3	4065	SAPPDVTITYTSEHSIQVERPQGS TGSRTAPKYGNAELMETGDGV PVSSRVSAKIQQLVNTLKRPKR PPLREFFVDDFEELLEVQQPDP NQPKPEGAQMLAMRGEQLGV VTNWPPSLEAALQRWGTISPKA PCLTTMDTNGKPLYILTYGKL WTRSMKVAYSILHKLGTKQEP MVRPGDRVALVFPNNDPAAFM AAFYGCLLAEVVPVPIEVPLTR KDAGSQQIGFLLGSCGVTVALT SDACHKGLPKSPTGEIPQ

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8349	38717	A	8406	10	580	KQCALLTFICSLPMSFGFAPAIT VTVVN/PRHPLIRDMRLRIKEDE DDKTVLDLAVVLFETATLRSG YLLPDTKAYGDRIERMLRSLN IDPDAKVEEEPEEEPEETAEDTT EDTEQDEDEEMDVGTDEEEET AKMS*ALLTFICSLPMSFGFAPA ITVTVVNHFVLCSTGSGVFRS ENWKVWAESSRGDHDCLDL CSVLCWGRATGAFSCPAQLIF AVSSSSSVPTSISSSSSCSVSSVV SSAVSSGSSSGSSSTFASGSMFK LRRSILSILSPYALVSGKRYPDR SVAVSNKTTARSKTVLSSSSSLI RRMSLSISGCRD
8350	38718	A	8407	1	1967	MTMAAAAVVARGAGARAATA AALRGCGCTAARGRPCAGPAR PLCTAPGTAPDMKRYLWERYR EAKRSTEGTKKYTTSLNARHY YTHFTEENEDEINSSSSYASQKK TFEINPRHPLIRDMRLRIKEDED DKTVLDLAVVLFETATLRSGYL LPDTKAYGDRIERMLRSLNID PDAKVEEEPEEEPEETAEDTTE DTEPDEDEEMDVGTDEEEETG KESDDPMAYIHFTAEGEVTFKS ILFVPTSAPRGLFDEYGSKSDY IKLYVRRVFITDDFHDMMPKYL NFVKGVVIRKKLVKTLDMIK KIADDKYNDTFWKEFGPTTKL\ GVIEDHSNRTRLAKLLRIQSSH HPTDITSLDQYVEKWMKEKQDK IYFMAGSS\RKEAESSPFVERLL\ KKGYEVIYLTPEVD\EYCIQALP \EFD\GKR\FQNVVQGKECKFHE S*ENLRK**CKSVEQRISALCLN WMKDKALKDKI*K/ALWVSSA ALTESPVLLLVAQPVRDWSWP TLGE/RSMKAQAYQTGGHLL QIYYAESERKHFEINPQTPLIR D\MLRRIKEDEDDKTV\LDLAV VLV*NRQLGSGYLFTQTLKAY GDW/RLERMLRSLNI*PLMPK VEEEPR/EEPEETAEDTT\EDTE QDEDEEMDVGTDEKGRTSKG
8351	38719	A	8408	181	462	GMASASDSSKTGFRGKQVVAG AVGDSAKESQGQPPGAPPRRA AGL/WRRHHCSF*AD*TTNAPG GKNPRPGKGAGGEQGTAGDFT CQMPRTQNTL

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8352	38720	A	8409	3	228	STGVPVSQQNLPLEKASVLFNT GALYTQIGTRCDRQTQAGLESA IDAFQRAADMSPPLTRRSLGP TRWHQGTPH
8353	38721	A	8410	129	311	RCFQPDCHSTPGTGPRRSGL LSSAAPW*KPPAAPRTPHSRSH NRGPRRQQHARHQDDP
8354	38722	B	8411	1	789	
8355	38723	A	8412	1	933	TVVLKDFILEHYSEDGYLYEDE IADLMDLRQARRTPSRDEAGVE LLMTYFIQLGFVESRFFPPTRQ MGLLFTWYDSLTVGPVSQQNL LLEKASVLFNTGALYTQIGTRC DRQTQAGLESAIDAFQRAA\GP TRGGRASTYEMTPAAS/PEIPGA SLQREE/QWTGAWTHQQIYPQP GTPP*SPPQAQPSRFLFAMDFA ATTSAIGSARPSTNQS*GYFHTG RSWQPVA**ECHILRGNAENVL HDLLSH***RQN**NQENLQEAF LPELGHQQEQTEVSQHLVPIG RGCTASGQEEAALPFQPSQLRQ FLVL
8356	38724	A	8413	1	389	
8357	38725	A	8414	1	506	
8358	38726	B	8415	125	700	
8359	38727	B	8416	19	338	
8360	38728	A	8417	1	3335	MAALWNTCGAWKNMLIPECH SQLLRVAANPKVREQVRLELSF VNSDLQMLKEELEGLNISVG VYQNTDEDGYLYEDEITDMDLR QACRTPSRDEARVELLMYFIQ LGFVENRFLPPTWQMGFLFTW YDSLTVGLVVSQQNLLLEKASV L FNTGVLYTQIGTRRYRHTQAGL QSAIDAFQRAAGVLNLYLKETFT HNPSYDMIPAMLSVLVKMMLA QTQESVFEKISLPGIWNFFMLV KVAQEAAKVGEVYQQLH
8361	38729	B	8418	1	1689	
8362	38730	A	8419	2	722	CPGGSERGQRQPCGCRSRGRTE PGFSPC*KSA PRPQAVSLKSASP RPSSSS\GPAGISSPGRESRSCGT QNILGPFQLVSG*PL*GR* CQFPAAAEP PAVPL*AEDISA/GPPAV *AP/SGLAHLASG/PGPLPLGG AGLV*QSI**GGHQGADEGP*G EMDAKEAGPAAQNCDLHVCPG ARGAEGAPGEGCIS*QPHAPDA L*AASELPKDELLRQCSGG*RC SPAGSAAPRAGSSAVLEPQ

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8363	38731	C	8420	144	439	
8364	38732	B	8421	1	4747	
8365	38733	A	8422	1019	1880	YCCLPRGGNAGCQTRQDPSCRPGPGSQGLSLPPGR\PGAAVECGARSRGWGQDGPSPSPGKAQVPAEPAPPQT\PGPPEDPCLGPRNEVPDGG/GARQSHHPGPPRSPGPEGGSPQAAARLVDWRVSRPQNQLPNPGP*DQPPRPAIPTATPSGCNGPGFPRAPRRLSSEEEAPSRAGPEEEAPPTYTPRLRRGRPARGPVCR/PPAGPPAV*PEFRRFALPRASVSGFQSS\PVAAGGAPDPGPGRLLGYTDAHGDLPLTNTTACTGPWPAGPRHCASGAEA
8366	38734	A	8423	240	763	VLVARRPQRPGHEPAVLQQ/PAGP/PVPRKPNPSPSRSPAGLRPPGRAGPLTSPRCPLAFTGHRTP/PVGPVRPKAAGPRRRTYQGRGMGPRPRRRPVVPVGGERSHSHPSGPPLRSPGPEWGLTSSSCPARGLEGVSA/TQNQLPNPGP*DQPPRTCHPHGYTQRI/PSGPPLRSPGPEWGLTSSSCPARGLEGVSAPISSRIQGRRTSLPEPAIPTATPNGYIGSGFPAG
8367	38735	A	8424	2	609	PYSISIVSTGPSADSVYTKVRLL EGETLSVQCSYKGYKNRVEGK VWCKIRKKKCEPGFARVWVKGPYLLQDDAQAKVVNITMVALKLQDSGRYWCMRNTSGILYPLMGFQLDVSPAPQTERNIPFTHLDNILKSGTVTTGQAPTSGPDAPFTTGVMVFTPGLITLPRIP*PPDLPPRQATASLLPAPPARDPGGPWGPRQ
8368	38736	A	8425	1	252	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8369	38737	A	8426	3	1581	ALHCAIRHEDKWPTAVRANGH LLLNSEKMSKSTGNFLTTLTQAI DKFSADGMRLALADAGDTVED ANFVEAMADAGIL\RLYTWVE WVKEMVANWDSLRS GPASTFN DRVFASELNAGIIKTDQNYEKM MFKEALKTGFFEFQAADKYR ELAVGRDAQ\KL VFRFIEVQTLL LAPFCPHLCEAHLGHSWGKPG LQLWNCFPWACGRVPV*WKFL IHSSQYLM EVTHDLRLRLKNY MMPAKGKKTDKQPLQKPSHCT IYV\AKEIYPPWATLPPCLFLT V KHFEGQLTGKTGLDNK\AIASE LGSMPELK KYMKKVM PFVAMI KENLEKMGPRILD LQLEFDEKA VLMENIVYLTNSLELEHIEVKF ASEAEDKIREDCCPGKPLNVFRI EPGVSRFLLVN/RPQIPMAHFL NPKLEIRQGD\TVIPIIRRLMKM NRGI*RPFPKVKPGWRI**SHCW GPRRSSCPWEKEYTREDPPFPE ACLFSDVDLMSKKIHLTENGIR VDIGDTINLSGSLNSCTLEIYPG FLGILL
8370	38738	A	8427	1	1052	MIKNIGPQYLTPSFLGEQEGDEE EEGHIVDAEAEEGDADASDAK RKEKQEEEV DYEEEEEREGE ENDDQM QEERNPHRRGARKT QEQDEEVGL/GH*GGPVPSRPP DAAPETHPQPGAPGA\EA VERR VQAVREIHPFIDDYQYD\TEESL WGQVTVKLPLMKINFDMSSLV VSLAHGAVIYATKGITRCL\NE TTNM\KNEKELVLNTEGINLPEL FKYAEVLDLRRLYSNDIHAIAN TYGIEAALRVIEKEIKDVFAVY GIAVDPRHLSLVADYMC FEGV YKPLNRFG\RSNSSPLQQMTFE TSFQFLKQATMLGSHDEL RSPS ACLVVGKVVRGGTGLF\ELKQP
8371	38739	C	8428	154	219	
8372	38740	A	8429	1	1584	
8373	38741	A	8430	200	277	

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8374	38742	A	8431	3	877	LYLKVCYI*KELFEFSNLYKQPS GEEVWERILRV*DNNGRNIKL YQAEFIDLGPVSRDSAFNVAAQ GVKKGSNRLFPWLAEIWIKKW PTVREVEIPDLPLFNVEEGIQKL REIGMG*WISHFRPTHLSWEGP EDIPLTRPSQNIFVRAAPASLKS PVIALLYMSDLMVRTAVTQLQ NLNTMGIIGSQGGRDRVAPLNH QRQSGHGYHNGQQRESGNQNS LTGVELWHWLINHVVSRSVD RKPTTFLNLNYKQKTSRSNGRK TSLNYKNRESRPLNQFPDLSQF
8375	38743	A	8432	1	282	
8376	38744	A	8433	1	281	SVHTGHHHHYHHRHHHHHHHQ HQLHQHQHQGGGHHHHHHHH HHH/HYFQ*ATWEMLLWVGHS HL*RQP*KQHEHRDDVSQAGS VPCASRGFHIR
8377	38745	A	8434	64	302	
8378	38746	C	8435	133	262	
8379	38747	A	8436	1	1962	MFSIPTGQLRAAASGARRHRGR GSIGGPFHAIQGPVETDTTAQH ETVAPPDLAHPSPASRGPRPY/G RHLALDEPFLHISGALF*DSLAV *EPPE SRLDARPGARNSNSRCPI TA/RPPDTDMGTPSAQGA KSSA\ FAQLPPPHNSTRRAPAGDMPPS MPGATELLACSVAG*TSELRG GGFASSLSGSPCSKFGSPASSDA WPRLQPRWPVTFPEAQPLEVPG GTEHGCSPEPLSNSAAQTFF PPLHPTAPSCPLGLPGSPPGTSS TGDYIPT*DQSGTSKLYCPLQQ GGAEAAHCV/PA/PEQPETNSKR KGETPTPN/DKEGETPTPNEKKE KHQQQTKRRNTNTKRKEGETP TPNEKKEKHQHTKRRNTNT KRKEGETEPAQGGTNPGRVQQ SPAAL*CFSY*SECQACPSDES AGARFTAGSAPDKGL/PPGPSS WAPSS*HLILATTVHLLVTRPC* PPSCTGPSGLVVGGRPSAHH HSDLLF*SSAGKPDSWPCWTMS AMGILRPRGRASGAPGSATPFP GEFQEAHAPPVQPSTAQSLPAP CLPLGASGGPRQHPPDVSRGG DRGLQQSVLSDAAP*PGVRGNP PRGARWGARAAPWAGPSAPHS PCPQAPGPRDPLVYPSPGTEAQ MSCLTPQFLQILLCDFE

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8380	38748	A	8437	438	699	LLEGKLTNRKDIHTKTPSVCHH HRGPKVDKTTKMGKKQSRKAE NYKNQSASPPPKDRSSVYQQRN KAGHRMTLMS*EKKASENQTS PS
8381	38749	A	8438	1	1334	MDGRLYSVTIQPSSVLNLQLLL SGPKSAVLVVILMCSETNLSF NEFSSEFKTTSPEKMSIRKPQEK SADGKQFLQNDKRNPKLGNTQ TLLRNDVSGLLSRTKRNIVPPG WYSVYVTNNYVFKKSPKAKK VSÉSTTKNDPVKNIHIESSHNID LNKIAMNSNLQVVVKRLEDTIS IAKKSNNQPLSEGYKASKKLI EIDGKDQHADRNMTLTLNRMT CKEQSLSKSVVASGNIINSHCM PTVDLNNKRLLENLKKSSILDMG RLISSVENVPAKYEGTESSSVSN YSSPIKLMFLSEVKSSSEG VKYTL TSVGTSHSNVVLPEKPTTHHV TEEKTETNEDISNANSENYHSS HYDTDTFQRELNKFHSHAKETA GSSTMFIGDINS DKPQEEP KDNS SSATDPSF/NKKTR*TKKNRSPS CETD*ATNWKT TKA*N*SNKH
8382	38750	A	8439	115	523	QFFFSLSQALKLDQAIHISMDAF HSVSELFASQSRRLDPAMDLL VLSQGHQTNILDIVHIHKEALT KVTENRQHVAEGKTE/SAEADD VRIT/VNRNSFTTSLEIHFFHPI*I RDMKSQMQHFLQQEILFFQKSS RN
8383	38751	A	8440	1	461	
8384	38752	A	8441	3	319	
8385	38753	A	8442	112	480	IFSSLNVAYPWIEKKVDGSKC PIQQQLERKIKNFVLYLK/RLQL TKCEFKN*RLENFIRVNKNEKY VCT/SYHTKLLFNNLHMA LILIV FKYQSFFSLHSCNQPHAKVLE PALELQDEDEGMVH
8386	38754	A	8443	1	528	

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8387	38755	A	8444	2	811	GIHTRLNSELLKEEESNKRLEAE IEYQSRLTAAISKHSESVKTER NVKLAL*EQDVSQVKMSSDI SEVEDKNEFLTEQLSKKQIKFN TLKDKFRKKRDTLRKKSLALET VHNNLSQTQQQIKEMKEMYEN AEAKENNSTGKWSCVEERICQL QHENPCIEQQLDDVHQECLPS RKEKFKSEPPAFLSGNQVKSSS CSLQTLFPPDDLILYLENPKDST KKLLELINKFRVTGYKIKLQKS VAFLNDKNEQSKEENQECNPIY
8388	38756	B	8445	1	1581	
8389	38757	A	8446	617	2972	EQNKPYQWLQRKNSKRERSE KKQPQVKEGNNNTKSEKQLSE NICDSTSSAAAGRLTQQRKIGK TYPQQFPKKLKEEHDRCTLKQE NEEKTNVNMLYKKNREELERK EKQYKKEVEAKQLEPTLQSLE MKSKTARNTPNRDFHNHEEMK GLMDENCILKADAILRQEICTM KNDNLEKENKYLKDIKIVKETN AALEKYIKLNEEMITETAFRYQ QELNDLKAENTRLNAELLKEK ESKKRLEADIESYQSRLAAAISK HSESVKTERNLKLALERTDVS VQVEMSSAISKVAENEFLTEQ LSETQIKFNTLKD KFRKTRDSL RKKSLALETVQNDLTQTQQQT QEMKEMYQNAEAKVNNSTGK WNCVEERICHLQREN PWLVQQ LDDVHQKEDHKEK*LISQGRF IESGKKDLVLEEKSKKLTNECD HLKESLFQYEREKTEGVPKKEN EELRKL FELISSLYNVNRIRKK NDELEEEATGYKKLLEMTINM LNVFGNEDFDCHGDLKTDQLK MDILIKKLKQFDDLTAKEAL SSKCVNLAKDNQVLQQEFLSM KKVQQQCEKLEEDKKMLKEEI LNLKTHMENN RVLSKLQEYK LELDEKAMQAVEKLEEIHLQEQ AQYEKQLEQ/FKQGYNTASLNK KELTLKDVECKFYKMKTA YEE VTTELEEYKEAFAAALKANSS

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8390	38758	A	8447	1	2794	AVYLSRGCVCVCIRCISLLKEPH EEGVMCSFRSVATQKNDIRPDF QLGKMDSKIKELEPQLTILYQN PKTLKFQKKSVKFALSPSMAL RK*PFKMFSI*SIFIALQFLHGY KPILFEPNQTWPGHVAVWQDT CSIVAI/SANITQKVHPVI/W/SSIP PYGVALSSLTTGTAAPLCTQL GV*IPLDCAQATFISHDKMVISL KGYLFLSSCLGNSLLLKYTEKL QEPPASAICEAADKEEPSQKK RVDT/S
8391	38759	A	8448	184	427	WAIAIQRHVVDQEWQIADPC NM**VENAETLPPGPFLNISLES SARRRATSRDDNRRFRPHRSRR SRRSRSDNALHLASE
8392	38760	A	8449	1	903	MAQKFMAPNRARTLRDICTDR EAYPVQESMGSGTRGQRKEDM GGAALSTGEGGARDVKAPLPE ATLCSQMGPTGRPSGLCDLAG STLAGRWMHQSFDFDGGMEAS KLPGQEGVRIQPMSETRRRAT SRDDNRRFRPHRSRRSRSD FSLHLASEREAISRLKDRPPLRA REDYDQFMRQSFQESMGHGS RRDLYGQCPRTVSDLALQNAF GDRWGPYFAEYDWCSTCSSSS ESDNEGYFLGEPQPAPRLRYV TSD\DCCTNTAPTASPNLPH*VA EDSCTAGKDQRAKTCIISLY
8393	38761	B	8450	1	322	

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8394	38762	A	8451	1	2460	MEEKSKRRGVLWSLLILALKFG DEPPLGSPNSCKYKLTTLKELG WREVFSSLQFCLCTSVASQMLS QYFEYTQPHPGDICHPETCALQ KVFLTSSGQSSSTSSSSQQFVLQ INAIQTILEKTPTHISTPTPTPTLA NPTAVGLEEDREQDVGTSRSG GAWDTRIKRELEKMSEKCGGQ INGGDIASFASRAGHGVCWHPP CFVCTVCNELLVDLIYFYQDGK IYCGRHHAELCKPRCAACDEIIF ADECTEAEGRHWHMKHFCCFE CETVLGGQRYIMKEGRPYCCH CFESLYAEYCDTCAQHIGEAIF GSQ/HWSFC/RCGHLCFGEWG* PQLLWMLC*LELTGKPRDAIMS SLHSWHLRKGVRRRRRRKEDK SPEVLP*KSISGTLSH*R*RPH* SLFLGSRVSLPSGECRGPYPYS HSLRLYSQQALPTGRGPSSSQFP FCQFYCCYKKSLLCDCLSKSPA LEKAMRGIDQGQMTYDQGHW HATETCFCCAHCCKSLLGRPFL PKQGQIFCSRACSGEDPNGSD SSDSAFQNAKESRRSAKIGK NKGKTEEPMLNQHSQQLQVSSN RLSADVDPPLSLQMDMLSLSSQT PSLNRDPIWRSREEPYHYGNKM EQNQTSPLQLLSQCNIRTSYSP GGQGAGAQPEMWGKHFSNPK RSSSLAMTGHAGSFIKECREDY YPGRLRSQESYSDMSSQSFSSET
8395	38763	A	8452	2	942	NKNPKNHYPESYVSLKNDFTK LTSRRHRGVEQALVQLCHVFV CEHGHVIVTLSSGFIVYRTRAN YSSAQGVGIAAAALDAVLIRA HQTQGGCHHELALLAFEKGSE KKEEEGGQVSRSSSLKVQAQE LSATEDKGHISPFWEAVYHYA SGECRGPYPYSLSRLYSQQA LPTGRGPSSSQFPFCQFYCCYK KSLLCDCLSKSPALEKAMRGID QGQMTYDQGHWHATETCFCC AHCKKSLLGRPFLPKQGQIFCS RACSGEDPNGSDSSDSAFQNA RAKESRRSAKIGKNKGKTEEP C*TSTASCK

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8396	38764	A	8453	1	937	VHQYYSCLP EEKVPYVNSPGEK LRIKQLLHQLPPHDNEVRYCNS LDEEEKRELKLFSSQRKREN LG RGNVRPFPVTMTGAICEQCGG QINGGDIAVFASRAGHGVCWH PPCFVCTVCNELLVDLIYFYQD GKIYCGRHHA ECLKPRCAACD EIIFADECTEA EGRHWHMKHFC CFECETVLGGQRYIMKEGRPYC CHCFESLYAEYCDTCAQHIGID QGQMTYDGGHWHATETCFCC AHCKKSL LGRPFLPKQGQIFCS RACSAGEDPNGSDSSDSAFQNA RAKESRRSAKIGKNKGKTEEP\
8397	38765	B	8454	214	551	
8398	38766	A	8455	1	1140	
8399	38767	A	8456	1	2525	MLNIQSVPGIGQGHYSRYLHSN PMHSGDFISNIHMRKPKFREIIF ADECTEA EGRHWHMKHFCCFE CETVLGGQRYIMKEGRPYCCH CFESLYAEYCDTCAQHIGEAIF GSQ/HWSFC/RCGHLCFGEWG* PQLLWMLC*LELTGPRDAIMS SLHSWHLRKGVRRRRRRKEDK SPEVLP*KSISSTLSH*R*RPH* SLFLGSRVSLPSGECRGP GPYS HSLRLYSQQALPTGRGPSSSQFP FCQFYCCYKKSLLCDCLSKSPA LEKAMRGIDQGQMTYDGGHW HATETCFCCA HCKKSL LGRPFL PKQGQIFCSRACSAGEDPNGSD SSDSAFQNARAKESRRSAKIGK NKGKTEEPMLNQHSQ LQVSSN RLSADV DPLSLQMDMLSLSSQT PSLNRDP IWSREEPYHYGNKM EQNQTSPLQLLSQCNIRTSYSP GGQGAGAP EMWGKHFSNPK RSSSLAMTGHAGSFIKECREDY YPGR LRSQESYSDMSSQS FSET RGSIQVPKYEEEEEEEGGLSTQ QCRTRHPISSLKYTEDMTPTEQ TPRGSME SLALS NATENQDDCS FVNRLKGSNNRPGRRQELMVT WNFIQERN GSGMDQCDDGGG KILDPVYILTVELTGFAKGWKM FSVKDQSVNV LGFAGCLSADG GAKRQEHL SRFSMPDLSKDSG MNVSEKLSNMGT LNSSMQFRS

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8400	38768	A	8457	7	302	PLPSSPEQPAGRKGTGLPCALT EIYFRVTIYFYVEIEK\LLIIVAK QEGLSGN\HKP\VERKYMITYLS AQD\HELIQVVQNGHLQMCGK SETGNEASPV
8401	38769	A	8458	1	241	MTYLSAQDHELIQVVQNGHLQ MCGKSETGNEASP/G*GRGVNP WP/RHARSRMALTRSSASCCR CSGASSICTGTSLSLSTGG
8402	38770	A	8459	31	454	QRSAWRSQIWSASRSV*SVFVR RASSRCLRNTGSGPGHPDR*DC RT/ARRCGWTRRRMASPSAAC GRSRCCSACVI/LNIVELKEVVV GNHLESIFLVMGYCEQDLASLL ENMPTPFSEAQVKCIVLQVLRG LQYLHRNFIHR
8403	38771	A	8460	1	914	SYHHLRHHHHHLPHHCF/HHN NHYHHYHHYHHHHHCHHYH YHHLHHHHHHHHHDHCYYH NNNNNCHHHHHHYHHHHH*Y HHYHPHHHHHHHYHHHHYHH HHHHHHHRHHYHHHHHQHH HYHHLHHHHYHHYHNHYHR HHRYSNNHHYHHHHPHHY HHHHC*HHHYLYHHHHHHNH HHHYHHHHHYHYHYH/HHH HHHHHHHYHHYCHDHNYHYH HHHHYH/AHFHHHYHHYHYH HHHHRHHHHLHHHYCHRP YHYLSCCETSHTLFPQNAISSFD CKYLDGQDDEDFVVYKLCTLY
8404	38772	A	8461	102	420	DTGPGEGAAGGCGG\GVGEGV AAPAAPGHS*VG/GNQPYLSPV CSRGSPGTGRAAARGLSGCWP WWSPRSGSAPSQCSSASWSAW SAGAPRFAPSAPGHPEGRRCPA
8405	38773	B	8462	121	215	

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8406	38774	A	8463	44	1584	AVLDRGPRVGSSSPSPGGMSTC LSSPLFATAAELGG\GLCSAGRD GPRRKVYLSVDEKKLRCCQPKS GRSVAERAAGH\SAEGWRPVH VGPGLLGLAL*GP*AWGFQGR KGGI*KGAYTAKCMMGSDKAQ ASGIATGGGHSGAEAVG/PQQ/ QGTVLSFEGGGGLSFRMPGSL \GPSVPCKCGHPGPRCPPHHA E\GTDTVATVAAT/GPPLAPSHG TSWQSGSLQ*DTGPGEGAA\AA AVVGVGEGAELPAAPGHS*VG VISHICHPFVAGGSPGTGRAAA RGLSGCWPWWSPRSGSAPSQC SSASWSAWSAGAPRSAPSAPGH PEGRRCPA*GWN PQGSKSSLKS SELWTPIPYVPYAVP*HTCGYA AGPAPVQTPCRGGWNGAQVGL DP\GGHGDGTPHGS/APRLPGRV GGAP*AAVAAISTDPPATASLG PAPGGPACCPSL*AACPASSASP APARSSWPPAPASCGSAAPWW HQTGHGSLWWPEHSCRLSHRS PSPGAPCWPFPRASPDRTA
8407	38775	A	8464	1	541	MKSLEEKIGCLLKFLGDLDDQT CKEDLHILFSNHGEIKWIDFIRG AKEGIILFKEKAKETLGKAKDA NNGNLQLRSKEVTWEVLEGEL EKEALKKITEDQQESLNKWK KGCRFKGKRKGSKAAQPGSGK GKVQFQDKKTKFASDDAHDEN GSTGPIKRGREETDKE*PASKQ PKTENA

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8408	38776	A	8465	1	1326	PAALGGGVVAVAVCEPVARLL WAGTLKIAVMAENGDNKMA ALEAKICHQIEYYFGDFNLPRD KFLKEQIKLDEGWVPLEIMIKF NRLNRLTTDFNVIVEALSLSKA ELMEISEDKTKIRRSPLPEV TDEYKNDVKNRSVYIKGFPTD ATLDDIKEWLEDKGQVLNIQM RRTLHKAFKGSIFVVFDSIESAK KFVETPGQKYKETDLLILFKDD YFAKKNEERKQNKVEAKLRK QEQAQKQLEEDAEMKSLEEKI GCLLKFSGLDDQTCREDLHIL FSNHGEIKW\DFVRGAKEGIILF KEKAKEALGKAKDANNGLQ LARNKEV\TWEVLEGEVEKEAL KKIIEDQQESLNKWKSGRRF KGKGKGNKSCSPGSGKGKVQ FQGGKTKFASDDEHDEHDENG ATGPVKRAREETDKEEPASKQ QKTENGAGDQ
8409	38777	A	8466	2	331	CSTSLMIREMQVKTMMRYHLTP ARMAIIKKSRRPGVCGPQFTASY CSSWNRGLSRAMAQSLTPRPLS TLQ/PLLA VDRGS/PVLGASHRL PAQC/CMTDSSSSTLGSAAAGSW QQ
8410	38778	A	8467	1	209	MNSHFLKEDIQMANKHMEKCS \PLLMIREMQIKPTVRYHLTSAR MPIIKKSK\NSRCWHGCGEHGT LLHC
8411	38779	A	8468	2	370	CSTSLIIREMQIETMMRYHLIPA RMAIIKK\SRCWQCGGEQETLL HSWKPP/LWRSSSGTARERQF LHPLLLKARIEITPPESLAVLKIP MEGTWMELEAVILSKLTQKQK TKH*MLSLTSGS
8412	38780	A	8469	2	194	CSTSLMIREMQIKTTVRYRLTS ARMAIIKKS\NSRCWHGCGEH RTLLHCCNLWKERNVSYVSA
8413	38781	A	8470	341	496	

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8414	38782	A	8471	46	711	SLIHLELIFCIGLDVRLGKDFMT NNLKGNAIKTKINFWDLIKLN FCKAKRNSQ\RANR*QTEWEKT FIICTSDKGLTSRIYNKQISKK KTNNPIIKWAKDMNRQFSKEDI QMANKHMKKCSTSLMIREMQI KTTVRYHLTSARMAIIKKSKNS RCWHGCGEHGTLHCWK/SKS LYEKDTCTRMFIAAQLAIAKTW NQPKGPSINAWIKDWCQSKTN HNK
8415	38783	B	8472	36	1199	
8416	38784	A	8473	3	184	FFFFLRRSL/DSVAQAGVQWR DLSSLQAPPPGFTPFSCSLSS WDYRRLPPRPANFLYF**RRGF TMLARMVIS*PRDPLASASQS AGIQKNSFFLETRVSAFVAQA GVQWCDLGSPQPPPGFK*FSC LSLLSSWDYRRLPPRPANFLYF
8417	38785	A	8474	3	295	AAAFFVFFETEFRSVAQAGVQ WRDLDSLQAPPPGFTPFSCSLP CSWDYRRVPPCPANFCIFSRDG VSPC*PGWSRSPDLVIHPSRPPK VLGLQAMS
8418	38786	A	8475	1501	1879	IRNTHAKIHELCLLPFTEL*CNF FFFFLRRSL/DSVAQAGVQWR LGSLQAPPPGFTPFSCSLSSW GYRRLPPCPA/NFFVFLVERGFT VLARMVLMS*PRDPPASASQSA GITGVSHHARPTLK
8419	38787	A	8476	1550	2469	FFPFFFFLRRSSPLPPRLQCSGMI LAYCNLRLLGSSNSVASASGVA GITGTCHHTQ*IFVFLVETGFHH VGQAGLEFLTSGDLPTSASQSA/ RDYRRDDHTRPEKCF/C*KTHIL WHSPSWSS/EERGSQFFSQDS*K SSRYPKLLGMWVIINIYGTR T*K*EKFKTREYIGTHSIHRGNH GVNTYHVASEKLH/*YTYRMK KAKNFFFFLRRRELASIVAQAG VQWRDLG\SLQSPPPGFTPFSCP ASLRSDYR/RVLPPLANFFL YFFS/MRRGFTVFSR\MSVIS*PR DQ\PASASQSAGITGVSHRARL KIIFFFFSETESRSVAQAGVQ WHDLGSRHRPPPGFTPFSCLSFP SSWDYRGPPRPANFCVFSRD GVSPC*PGWSRSPDLVIRPASAS QKCWDYRREPPRPA
8420	38788	A	8477	1	2268	

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8421	38789	A	8478	1	2312	MAGPPSGPGRPEVCGAGRTRV AKARFRRRRAFASLGWSSGRE VVTFGDVAVHFSREEWQCLDP GQRALYREVMLENHSSVAGIG EDAPWGPFPCHSQHPPSQASIR GPCVYTVADVPTGIAVIPPA VCFSRLKDCDTRTEDKEFLHKE DIHEDLESQAEISENYAGDVSQ VPELGDLCDVSDRWGVPEG RRLPQSLSQEGDFTPAAMGLLR GPLGEKDLDCNGFDSRFSLSPN LMACQEIPTEERPHPYDMGGQS FQHSVDLTGHEGVPTAESPLIC NECGKTFQGNPTLFSVKQSHT GEA\SFMCDDCGKTFSQNSVLK NRHRSHMSEKAYQCSECGKAF RGHSDFSRHHQSHSSERPVMCN ECGKAFSQNSSLKKHKQ\HMS EKPYESNECGKAFRA\SSNLIQH QRIHSGEK\PYVCSECGKAFRRS SNLIKHRTHTGKPFECG*CG KAFSQSAHLRKHQRVHTGKPF YECNDCGKPFVRVSNLIKHHRV HTGKPF*KSSACGKAFSQSSSLI QHRRIHTG\EKPHVCNVCCKAF SY*LQCSESTRFIHTGRGRPYRC SVCCKAFSHSSALIQHQGVHTG DKPYACHECGKTFGRSSNLILH QRVHTGKPFYECTECGKTFSQS STLIQHQRJHNGAEAP/YKCNQC GKAFFNQSSKFSIHPQKVHIGEK\ PSPCVECCKGFSQSSHFFQHRY
8422	38790	C	8479	194	458	
8423	38791	C	8480	214	378	
8424	38792	A	8481	107	345	GPLTCRYWEIHSQEPGPPRSLE MVLFSQSN*SPVWSKEKNL*P *RDMR*/YAKPPGRCK*K*IQQ MTQMRGRNIQEKASP

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8425	38793	A	8482	1	1454	MHEEEGESGDSRVYMSTQCTH VTLNKFLGFIVSESVSGLNIQES MKEVLRGQSLKHNPIREAGLET LQSGRQLERRGRLSGMARPLSL AAAGAPDLLFTALCSLLIEAQP LRPFDLQTTLTAAECHYTGKKF SLNEGKPVLRKNSQTNTWEPG TIITWGRGYACVSPGDQSPVWV PTERLKL RVNSDKESHREKTSK SETAFIPAQDLAYNRFYLIHLLT LSVSPVSPQTDLPAT*NYSYWA YVPFPPLIRPLFWMDAPAEIYT NDSVYMPGATDDHCPTRPREE GTAFNVTMGYKYPPCLCLGHAH VDGCIHLQAQIWAAYLPERLAT REQGHLISSLSPLRQMKGCVI GDTPNFQYKPVGKPCPKNFEGP SKILIWEDCVNSHVVLKND YGLVIGWAPKGYFK\NNCSSGG RECLEATYFISHWEDKDHHTL HRRVSSFFPL*WEDKGITPPRPH MIFPILSLEHSELWKLAIAMSGL
8426	38794	A	8483	49	1393	AEPAPTHLPPPPSTAPQPERNSC CISQQSFSVP*S/SPDSDRPRGRH /SPPPP/SPCPPPPCLPPPKSTTAM PTRCQCPPPPIPTVAAFPLPPSHF LRTLPA PRPPTQPPPLSH/TTHPP EQRTLGP KFR LFSTPSKNLEYL MNKSGRSPGCLLREATGTADL ARSIASLTAPQTDASGISGGRST LRQTRCSSGRLRTHPRLSMRAS LPLRPRRRACL PQCRDKELLITK RKYRKKK DFAAGLEDVTEFQG REENPRHTFIYSLPLGLQKHQV LTVDIGFGGTAIMTG IARVPLA GAAGGPGVGRAAGRGVPAGVP IPQAPAGLAGPVRGVGGPSQQV MTPQGRGTAAAAVAATASIM APPPGMRPPMGPPIGLPPARGTP IGMPPPGMRPPPPGIRDCGGS LT PLGDVCLKGSLARVLCRAIVQI YSICVLLTTSEQQLSIRIHPQNA V

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8427	38795	A	8484	49	752	AEPAPTHLPPPSTAPQPERNSC CISQQSFSVP*/S/SPDSDRPRGRH /SPPPP/SPCPPPPCLPPPKSTTAM PTRCQCPPPIPTVAAFLPPSHF LRTLPAAPRPPTQPPPLSH/TTHPP EQRTLGPKEFRLSTPSPKNLEYL MNKSGRSPGCLLREATGTADL ARSIASLTAPQTDASGISGGRST LRQTRCSSGRLRTHPRLSMRAS LPLRPRRRACLPCQCRDKELLITK RKYRKKKKD
8428	38796	B	8485	511	1349	
8429	38797	A	8486	3	431	ADAVGGPGGPGMAGCDGLPG GFGSDIRPRLWLWLPRLWSS* RGTNIIASVPKKLLLM/DCYA LARDRTATLGTFDAISKASN WIPDLWKETVFTKFPYQFTDH L/VKTHTRVSKQKTQVPAVATT AARQTMEGQAPVEYI
8430	38798	A	8487	1	470	
8431	38799	A	8488	3	314	
8432	38800	A	8489	1	458	
8433	38801	A	8490	1	855	PTRPLVLRVGATARALPRPSRS CSPSAVVPSAPSSCPPQPRIRTPK PEPEPEQVIKNYTEELKVPPDED CIISMEKLSTASGYSDVTDKAI GSLAVGHLLTKCSHAFHLLCLA MYCNGNKDGLQCPSCCTIYG EKTGTQPQGMVLRFPMSLP GHEDCGTILIVYSIPP/IGIQP/HEH PNPGKAVSLPEGFPAQCYLPEQ RPGPAKSLRAP*RAWK/RRLI FTVGHVPAPTGETDTVVWNEI HHKTEMDRNITGHGYDPNYL QNVLAELAAQGVTEDCLEQQ
8434	38802	A	8491	1	3797	MEYYAAIENDEFMSFVG TWMK LEIIILSKLSQEQKTKHRMFSLID FGFSNLFTPGQLLKTWCGSPPY AAPELFEGKEYDGPVDIWSLG VVLYVLVCGALPFDGSTLQNL RARVLSGKFRIPFFMSTGLVPEL DKRLKAGCLSAIECEHLIRHML VLDPNKRLSMEQICKHKWMKL GDADPNFDRLIAECQQLKEERQ VDPLNEDVLLAMEDMGLDKEQ TLQSLRSDAYDHYSIYSLLCD RHKRHKTLRLGALP

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8435	38803	A	8492	1	2563	MGDFNTPLSTVDRSMRQKV DTQELNSALHQADLDIYRTLH PKSTEYTFFSAPHHTYSKIDNIIG SKALLSKCKGTEIITNSLSDHSA IKLELRIKKLTQNHSTTEKLN LLNDYWVHNEMKAEIKMFSET NENKDTTYQNLWDTFKA VCRG KFIALNAHKRKQERSKIDTLTS QLKELEKLNQEEVESLNR PITGAEIVAIINSLPTKKSPGPDGFTA KFYWRYKEELVPFLLKLFQ SIEKEGILPNSGYEASIIIPK PGRDTTKKENFRPISLMNIDAKIL NKILANRIQQHIKKLIHHDQVG FIPGMQGWFNICKSINVIQHIN RTKDKNHMIISIDAEKAFDKI QQPFMLKTLNKL AQNLLKLISN/ SQQSLRIQNQCTKITSILIHQ* QTNREPNHE*TPIHNCFKENK IPRNPTYKGC EGPLQGELQTTA QGNKRGYKQMEEHSMLMGRKN QYLENGHTAQGNL*/I/QMPSP SSY**LSSQNWKKLL*SSYG TKKIGPHSQVNP KPKEQSWRH HTT*LQTILQGYSNQNSMVLAP KQR*RPMEQNRA LRNNAAYLQ LSDL*QT*QKQAMGNGFPI** MVLGKLASHMEK AETGSLPYT LYKN*FKMD*RLTH*S*NHK NPRRKPRQYHVSVHRHGQGLH V*NTKSNGNKSQN*RMGSN* TKELLHSERNYHQSEQAT HKMGENFRNLLI*QRANIQNLQ

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8436	38804	A	8493	1	1839	MPRALAFQAPVNIQAEQAGTAMNISVPQVQLINPENQIVEASSNLWELSAETTTFAISLLPFLIISNSMPDGTLNLDSDGEEPSPEALVRYLSMRRHTVGADPRTEVME DLQKLLPGFPGVNPQAPFLQVAPNVNFMHNLLPMQNLQPTGQLEYKMSGPLPSRLPLISWSVLPTLFLA\EQSLLQPPTLQLLNGMGPLGRRASDGGANIQLHAQQLLK/RPRGPSPLVTMPA VPAVTPVD EESSDGEPDQEA VQRYLANRSKRHTLAMTNPTAEIPDLQRQLGQQPFRSRVWPPHLVPDQHRSTYKDSNTLHLPTEFSPVRRFSDGAASIQAFKAHLEKMGNNSSIKQLQCECEQLQKMYGGQIDERTLEKTQQQHMLYQQEQHHQILQQQIQQPAQSQQVTIQVQEPVDMLSNMPGTAAGSSGRGISISPSAGQMOMQHRTNLMATLSYGHRPLSKQLSADSAEAHRLKWETREKGLLEDDSSVSNTGGDVTNEGKSTESADFGFSNLFTPGQLLKTWCGSPPYAAPELFEGKEYDGPKVDIWSLGVVLYVLVCGALPFDGSTLQNLRARVLSGKFRIPFFMSTGYFHLLGSHCNVVLNAKDKVGF
8437	38805	B	8494	1	3879	
8438	38806	A	8495	1	4065	MGKKQSRKTGNSKKQSASPPP KKRSSSPATEQSWTENDFDELREEGFRRSNYSELREEIQTGKEVENYEKSLEECITRITNTENCLKELMEPKTKARELRKECRSLRSRCYQLVERVSAMEDEVNEMKDT HRLKVKGWRKIYQGNGKQKKAGVAILVSDKTDKPTKIKRDKEGHYMMVKGSIQQEELTILNIYAPNTGAPRFIKQVLSDLQRDLDSHTLIMGDFNTPLSTLDRSTRQKVNNNTQELNSALHQA
8439	38807	A	8496	1490	1813	TGNLQNGRKFLQPTHLTGK*YPEMMNSNKFTRKKQTPSKSGRRT*TDTSQKKTFMQPKNT*KN AHHHWPSEKCKSKPL*DTISHQLEWQSLKSQETTGADEDVDK

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8440	38808	A	8497	1614	3085	AGE G N K A D K Q L Q Q S L R I Q N Q C T K I T S I L I H Q Q Q T N R E P N H E S T P I H N C F K E N K I P R N P T Y K G C E G P L Q G E L Q T T A Q G N K R G Y K Q M E E H S M L M G R K N Q Y H E N G H T A Q G N L Q I / Q M P S P S S Y Q * L S S Q N W K K L L S S Y G T K K I G L H H Q V N P K P K E Q S W R H H A T * L Q T I L Q G Y S N Q N S M V L V P K Q R Y R S M E Q N R A L R N N A A Y L Q L S D L * Q T * E K Q A M G K G F P I * * M V L G K L A S H M * K A E T G S L P Y T L Y K N Q F K M D * R F K R * T * N H K N P R R K P R H Y H S G H R H G Q G L / L C P K H Q K Q W / H T K A K I D K W D L I K L / I E L L H S K R N Y H Q S E Q A T Y K M G E N F R N L L I * Q R A N I Q N L Q * T Q T N L Q E K N K Q P H Q K V G E G H E Q T L L K R R H L C S Q E T H E K M L I I T G H Q R N A N Q N H N E I P S H T S * N G N / Q L K S Q E T T G A G E D V E K * E H F Y T V G G T V N * F N H C G S Q C G D S S G I * N * K Y H L T Q P S H Y W V Y T Q R T I N H A A I K T H A H V C L L R H Y S Q

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8441	38809	A	8498	2	2013	LNQEEVESLNRPTGAEIVAINS LPTKKSPGPDGFTAKFYWRYK EELVPFLLKLFQSIEKEGILPNSC YEASIIIPKPGRDITTKKENFRPI SLMNIDAKILNKILANRIQQHIK KLIHHDQVGFIPGMQGWFNICK SINVIQHINRTKDKNHMIIISIDAE KAFDKIQQPFMLKTLNKL AQN LLKLISN/SQQSLRIQNQCTKITS ILIHQ*QTNREPNE*TPIHNCFK ENKIPRNPTYKGCEGPLQGELQ TTAQGNKRGYKQMEHSMLM GRKNQYLENGHTAQGNL*/IQM PSPSSY**LSSQNWKLL*SSYG TKK\GPHSQVNP KPKEQSWRHH TT*LQTILOGYSNQNSMVLAPK QR*RPMEQNRALRNNAAYLQL SDL*QT*QKQAMGN GFPI**MV LGKLASHMEKAETGSLPYTLY KN*FKMD*RLTH*S*NHKNPRR KPRQYHSVHRHGQGLHV*NTK SNGNKSQN*RMGSN*TKELLHS ERNYHQSEQATHKMGENFRNL LI*QRANIQLQ*TQTNLQEK KQPHQKMGKGHEQTLLKRRHL CSQKTHEKMLIITGHQRNANQN HNEIPSHTSQNGD/QLKSQETT AGEDVEK*EHFYTVGGTVN*FN HCGSQCGDSSGI*N*KYHLTQP SHYWVYTQRTINHAATKTHAH VCLLRHYSQ
8442	38810	B	8499	1	2860	

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8443	38811	A	8500	3	2202	EGRNKDVI*NQREQRHNPESL GHIQSSV*REI*NTKCPQEKAGK IQN*HPNITIKRTRKARANTFKS *QKARNN*NQSRIEGRDRTKNP SKN**IQTIREYYKHLHANNLE NLEEMDKFLDTYTLPRLNQEEV ESLNRPTGSEIVAIINSLPTKKS PGPDGFTAKFYQRYKEELRIKY LGIQLTRDVKDLFKENYKPLLK EIKEDTNKWKNI PCSWVGRINI VKMAILPKVIYRFNGIPIKLPTF FTELEKTTLKFIWNQKRARVAK SILSQKNKAGGIMLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEPSEIMPHIYNLYIFDKPEKN KQWGKDSL FNKWCWENWLAI CRKLKMDPFLTPYTKINSRWIK DLNVRPKTIKTLEENLGNTIQDI GMGKDFMSKTPKAMATKAKID KWDLIKLSFCTAKETTIGVNR OPTKWEKIFATYSSDKGLIFRIY NELKQIYKKKTNNPIKKWAKD MNRQFSKEDIYAAKRHMKKCS TSLAIREMQIKTTMRYHLTPVR TAIIKKS GNNRCWRGCGEIGTL LHCCWDCKLVQPLWKS VWR LRDLELEIPFDPAIPLLGIYPKDY KSCCYKDTCTRMFTAALLTIK TWNQPKCPTMIDWIKMWHIY TMESYAAIKNDEFMSFVGTWM KLEIIILSKLSQGQKTKQRIFSLI DGN

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8444	38812	A	8501	437	2163	KQKCNISHLWNAVKVERIKYL GIQLTRDVKDLFKENYKPLLKE IKEDTNKWKNI PCSWVEESIP*K WPYCPR*FTDSMPSPSSYQ*LSS QNWKKLL*SSYGTKKEPASPSQ S*AKRTKLEASHYLTSNYSTRL Q*PPGKRGPPPEVQGHNADENN HTEDRQGNRRHEHSIDQLAVT DVHSTTAEYTF LSTRGGFSKID HMLGCKTNLNKYKEIEIISIFS NHNEIKQEINSRRKTRKSTNLW ELSSALLMNGSEKKTQVNLN WKLMKAKMQHITLMCESSRK NKIPRNPTYKGREGPLQGELOT TAQGNKRGYKQMEHPMLMG GRINTVKMAILPKVIYRFNAIPI KLPMTFFTELEKTTLKFIWNQK RARIAKSILSQKNKAGGLTLPD FKLFYKATVTKTAWYWYQNR DIDQWNRTEPSEIMPHIYNYVIF DKPEKNKQWGKDSL FNKWCW ENWLAICRKLKLD PFLTPYTKI NSRWIKDLTVRPKTIKLEENL GITIQDIGMGKDFMSKTPKAMA TKAKIDKWDLIKLSFCTGKET TIRVNRQPTKWKKIFATYSSDK GLISRJYNELKQIYKKKTNNPIK KWVKDMNRHFSKEDIYAAKK HMKKCSPSLAVREM QIKTTMR YHLTPVRMAIHKSGNNRCWR GCGEIGTLLHCWWDCKLVQPL WKS VWQFLRDLEIPFDP AIPL
8445	38813	A	8502	1	2001	MPHIQVMLMQEMDSHSLGKLC PYGFAEYSPTSSCFHGFVLSVC GSSRDKATQRVDALVRQVIVN GGIVLDQFAVHDRVALADLIDL LVDLSAMMLCGVPTTGDPFVA FALGHPDDFDHLILPKHLVDRI LLEPLLGPVQLLSHSASVHLD LHQFCSDFSYGIQLTRDVKDLF KENYKPLLKEIKEDTNKWKNI PCSWVGRINIMKMAMRPR*FID SMPSPSSYQ*LSSQNWKKLL*SS YGTKKEPVSPSQALA
8446	38814	B	8503	152	3166	

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8447	38815	A	8504	15	2745	HPTVNIRQINETESQQGYPGIEL SSAPSGPNRHLQNSP/PPNQQNI HFFQHHTTPIPKLTT*LSTLDRS TRQKVNKDTQELNSALHQADL IDIYRTLHPKSTEYTFFSAPHHT YSKIDHIVGSKALLSKCKRTEII TNYLSDHSAIKLELRIKNLTQSH STTWKLNNLLLNDYWVHNEM KSEIKMFFETNENKDDTTYQNL WDAFKA VCRGKFIALNAHKRK QERSKIDTLTSQLKELEKQEQT HSKASRRQEITK
8448	38816	A	8505	2853	3925	AVGPSVRTPRPYLCVRKDVHD VVPILRPSATSLFMPRAAGQGG QKAGGTEKSSGP*KDDV*RLQP PNGFRIIH*VQ*TCRKGCPLSK RNTFQFQN*R*NLLYPALPNIPH SSVEEGVGS!*ARSEDLEGAQLP *LLARLFTCRSNTYRGLKFTEA* GGE*QSICYSTRRANYPKY/HM HPIQEDPDS*SKS*VTYKET*TP TQ**WETLT/PPLSTLDRSTRQK VNKDTQELNSALHQADLID\TT ELSTPNQKNLHFFQHHTTPIPKL TTYLEVKLAPQQM*KNRNYNKL SLRPQCNQTRTQD*ETHSKLLN YMETEQPAPE*LLGT*RNESRN KDV L*NQREQRHNPESLGHIQS SV
8449	38817	A	8506	2	376	IPYLP*STYMETGMIYVVQGIY GYHHYMQDRIDDNGWGCA YR SLQTICSWFKHQGYTERSIPTHR EIQQALVDAGDKPATFVGSRQ WIGSIEVQLVLNQLIGITSKILFV SNTRKNKKVGNIVS
8450	38818	A	8507	1	1008	
8451	38819	A	8508	218	343	
8452	38820	B	8509	306	1434	
8453	38821	A	8510	3	659	

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8454	38822	A	8511	3	1990	EPHRIASPRFRQAFDSDGTDRTL *FLSDIEEEELTRGDPEQRHVPL RRKSEWKWAADRAAIDSRWN WLQAHVSDLEYRIRQQTDIYK QIRANKGLIGLGEVPPPEHTTD LFLPLSSEVKTDHGTDKLIESVS QPLENHGAPIIGHISESLSTKSC GALRPVNGVINTLQPVLAHDHPI GDCSDAEEQLHKKQRLNLVSSS SDGTCVAARTRPVLSCKKRRLV RPNSIVPLSKKVHRNSTIRPGCD VNPSALCGSGSINTMPPEIHYE APLLERLSQLDSCVHPVLAFPD DVPTSLHFQSMKLSQWQNKPF DKIKPPKKLSLKHRA PMPGSLP DSARKDRHKLVSFLTTAKLSH HQTRPDRTHRQHLDDVGAVPM VERVTAPKAERLLNPPPPVHDP NHSKMRLRDHSSERSEVLKHH TDMSSSSYLAATHPPHSP LVR QLSTSSDSPAPASSSSQVTASTS QQPVRRRRGESSFDINNIVIPMS VAATTRVEKLQYKEILTPSWRE VDLQSLKGGSPDEENEESPDPV SSSHSLSEYSHGQSPRSPISPELH SAPLTPVARDTPRHLASEDTRC STPELGLDEQSVQPWERRTFPL AHSPQAECEDQLDAQERAARC TRRTSGSKTGRETEAAPTSPPIV PLKSRHLVAAATAQRPTHR
8455	38823	A	8512	119	739	ADDRDHLHIQTWCAKAPVFLQ PGSSWLSTKGKKM/PETPASDE PPLRQPAVRFEFLQHAPPDSLQP LGSPGHS*GPSSDTGQPAAGRW PRRQP*AAVQDLGPQTRGSASP ESQTVLPAAPSAPGSARPHGSM SASAPSPTASPQMSKPPCAAAC LRGSGAGGGTVGPCLEPGGSAP PRARLPRCAAGSARPGAAAGPP PGAGTTRAVP
8456	38824	A	8513	1	343	MRMCLRLPTLMTKCTNWHVT GHLCRPT/MREPTPEP/WTGDDT TA*METRWPAEQPALAERRLFR AAPRGAFAGIAAPSPAAPPQPG SLGILPEPTPAQAWAARNQLRG RIKERGS

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8457	38825	A	8514	3	405	KKFNPAGERVCTILVDPSIPSTAYPSYGVPHS*GPSLSLPHL/SSSSRPSSISCPLNGPWKGCS*PPCRAQCAQPQAT*ESCIHS/SSNCIPPAWEGETPSKKNKINGNPWSKIRDKTSGGEVEVWGLVAVAPVM
8458	38826	A	8515	100	1397	PPASTYLMLERLKAPWSAALQRKYFDLGIWTAPISPMALTMLNGLLIKDSSPPMLLHQVNKTAQLDTFNYQSCFMQSVFDHFPEILFIHRTYNPRGKV/CIYLPGGWTSGAAGGSSCPSSLCHPC/ARRDT/CRPVPDVPSIQEV*SSMGESLYHPGGSSFPSTAYPS/SWSSPQLRSFSQPSTFVSSSRPSSISCPLNGPWKGCS*PPCRAQCAQPQAT*ESCIHS*ATASLQSPCSFTHTGCS TTASGWLTAGEAELRAATTSRASRSPPTSSASSLVPPHLRNKVWLLCSVTCSTLQTRQTSTRACVPRTIMLPQTPSPKAPNWSSW*NPTSSTPSMPSAQGGQPNCAWASLLWSRNPHTSLALAQR*TYRSWKIPIRCSPSPLPAAATLTRPSTCPAATS*PCSVPAARCSPTCCRLSGRQAVLPV
8459	38827	A	8516	1	326	CLTQMYFLIS/FANVDTFLLAIMALD/RLLAICSALRYCSIITPGYSHFYCDAYLLMKIACSIHVNHVFLGAVVLFL/APCALILVSYIRIAAA/ILRIPSPTRRRKACSIC
8460	38828	A	8517	2	669	TISYPQCLTQMYFLISFANVDTFLLPIMALDHYVAICSALQ*CSIITP/ELCQGLPVLA*AGSSLISPVHTVIMSRLAFCSSAQISHFYRDAYLLMKIACSHT*NQHVFLGAVVLFLAPCALILVSYIRIAAAILRIPSPTRRRKACSICSSHLSTLFTYGTVLGICI*PPDFSQAQDAIATIMYTVVTSMNLNPFYISLMNKEVQEA VRRLFSRGSHSSWCW

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8461	38829	A	8518	1	3594	MVAAAAATEARLRRRTAATAA LAGRSGGPHCVNGGRCNPGTG QCVCPAGWVGEQCQHCGGRFR LTGSSGFVTDGPGNYKYKIKC TWLIEGQPNRIMRLRFNHFATE CSWDHLYVYDGDSDIYAPLVAA FSGLIVPERDGNETVPEVVATS GYALLHFFSDAAYNLTFGNITY SFDMPNNCSGRGECKISNSSD TVECECSENWKGEACDIPHCTD NCGFPHRGICNSSDVRGCSCFS DWQGP GCSVPVPANQSFV
8462	38830	A	8519	1	471	ALCAPQPGKCFCTTKGSSG/DE CQLCEV/ENRYQANPLRGTCYN TLLIDYQFTFSLSQEDDRYYTAI NFVATPDEQNRDLDMFINASK NFNLNITWAASFAGTQAGEE MPVVSKTNIKEYKDSFSNEKFD FRNHPNITFFVYVSNTWPIKIQ VQTEQ
8463	38831	A	8520	1	4289	
8464	38832	A	8521	1	3488	MDYGVLTRLTGSSGFVTDGPG NYKYKTKCTWLIEGQPNRIMR LRFNHFATECSWDHLYVYDGD SIYAPLVAAFSGLIVPERDGNET VPEVVATSGYALLHFFSDAAY NLTFGNITYSFDMPNNCSGRG ECKISNSSDTVECECSENWKGE ACDIPHCTDNCGFPHRGICNSSD VRGCSCFSDWQGP GCSVPVPA NQSFVWTREYSNFKA/LPRASH KAVVNGNIMWVVGGYMFNHS DYNMVLAYDLASREWLP
8465	38833	A	8522	4794	5740	YICNWKMKDSSFPSLVQSPRS PGSCGLSGWGWGCPRVASAGS ACSCNSAVPARRTQEACRRELI GGRSTIFTDVQGWGAPGTVN EGNSACPPTLRVTVAAWLSLLF VLCRVCAASVPSLVRLRWGPQ CSGPWGA WAPPWAARVSQPG AGPGRGAEAQLLPAASIQWPC HQAPHLLLVLALVTSQGPSRCR GFCLAGPCQGGPGGLLILFCHW NVPLQFSSLFFF*DGVSLLLPR LECSGISGHCNLR L PGSSDRPA LGS*VAGDYRCLPACSANFFVF LVEKGFHHVGRAGLKL/MVIH LPRPPRVLR LQA

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8466	38834	A	8523	594	2868	CWTSRNRRIPIGSCHPMELPRPF RGKAKVQNHQLVHHNKALIN RGS�TFWLDGAIQAWHCPVK TYYQYTPVSSKAMY/DAFWNG/ KFRDC/AFHSWLNEDPFVCEYQ GQSSDLPQPPVNAAGGGSGGGS GGSEGGGSEGGGSEGGGSEG GGSEGGGSGGGSGGDFDYEK MANANKGAMTENADENALQS DAKGKLDVATDYGAAIDGFIG DVSGLANGNGATGDFAGSNSQ MAQVGDGDN SPLMNNFRQYLP SLPQSVECRPYVLSAGSEIGAA CASRSGYDNKGVRDIGYTDCK RSEDLDPLRHQILGGKKAIQFTL QGFTLPEGAPAGNSGSLAVHK TAQSSYRHHALLILTPMSGTRF PIPGPVVNIRVFPFAPSSECRIC YSWSWVP GSPVHCQSDGSPVPI SYAPLASQYSSSFLFRNRQPYA PYDYLSVMTSPRTLREQIRIRYA PSAPRLPPPEVYCSNSTIVYVRN NPSGPTPGFAGGTLLEGRSGGP FRFYAKRAKGDVLKPFSLNLPL QTLIRFMVDIACGMEYLSSRNFI HRDLAARKCMYEFWRTRGWE TAAAYYGGGTFFRKESQKLQ QSAKKRDAELANGALGIIELNN DYTLKKVMKPLITSNTVTDEIE RANVFKMNGKWYLF TDSRGSK MTIDGINSNDIYMLGYVSNSLT GPYKPLNKTGLVLQMGLDPND
8467	38835	A	8524	302	409	
8468	38836	A	8525	199	359	ARRQQVSVKSYRWEEEDQHCG ELQGE*VSDGLFKPP*S*HGW VEEERQKEQN
8469	38837	A	8526	1853	2032	VKQSTALLPHAVAC*PKVISSG ARGLKSILVLIRIVVMVSMPL QLALSGWGRFRLPG
8470	38838	A	8527	118	445	AAGGEPGDAPWVPGVWEPPE VCRGPPPSSTFPHVLSTFGASG PENS RDCSWLSPQH*AA*VASG NNGPQAAQGSLSGIPDAATLSG I*RASILHVSVEIISSPGFR

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8471	38839	A	8528	1	770	MRVLGIETSCDETGIAIYDDEK GLLANQLYSQVKLHADYGGVV PELASRDHVRKTVPLIQAALKE SGLTAKDIDAVA YTAGPGLVG ALLVGATVGRSLAFALGRFGDP CTPYWRASVSARCWKIPAPNFR CALLGSAAYAVNHGTGLSKKP TTLGSDHSKTPAQLAKRAGEA RRNGWQGALFPWESARSGEEE TP/VICRH*HSHRAAAKSGLGA GGTSSGGRYRLGGYSILADHGG *KFHCA*RHGATSGDGKVLDD
8472	38840	A	8529	3	834	VGRVEIADQYQDLAILWNCLG SDHASSRQRRPFRGKAKVQNH QLVHLQQSSHQPWLPHFLAG* WGDSGLGGGS\EGGGSEGGGSE GGGSEGGGSGGGSGSGDFDYE KMANANKGAMTENADENALQ SDAKGKLDSVATDYGAAIDGFI GDVSGLANGNGATGDFAGSNS QMAQVG DGDNSPLMNNFRQY LPSLPQSVECRPYVFGAVRHDV RRIRVTGVTRVTPPEEVDTSVH SRGAHRIRSGFAPKRSVRVTTD TCIKRNSTCGVKSLSLWDGGGF
8473	38841	B	8530	1	811	
8474	38842	A	8531	1	1044	
8475	38843	A	8532	3	1472	GVVGERAGMARPGRPREGGGS G/GYSRPVPPAGGPGP*RGRTRI/ SGLANGAGPVVFQFLTELTRLF QKCRTSGSVYITLKKCKQREGS RAMLPGFYTPVSSKAMYDAY WNGKFRDCAFHSGFNEDPFVC EYQQQSSDLPQPPVNAGGGSG GGSGGGSEGGGSEGGGSEGGG SEG D GSEGDGSGGGSGSGDFD YEKMANANKGAMTENADENA LQSDAKGKLDSVATDYGAAID GFIGDVSGLANGNGATGDFAG SNSQMAQVG DGDNSPLMNNFR QYLPSPQSVECRPYVFGAGKP YEFSDCDKIKILRGVFAFLLYV ATFMLPVIANIAIPQKRPFMQQT RCEVQCREDIEVQKLKSYDKLL ASINKKPGVNGWQKRRITVNA GEAHDQQALDYALYHLRIMTP AHDERSIAAKGLTGEGYKGH VFWDTEVFLLPFHLFSDPTVAR SLLRYRWHNLPGRARRKRDGN GWAGGAPISVGKARAAAKK
8476	38844	A	8533	609	855	

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8477	38845	A	8534	369	1278	GHTACEWYSQGRHPGPELSPFL *GPG*NAGHVISMPAARPMPC LGTGGLDVLLHHLRPDLPPAAL PGSAWPGEGALPLPGQVSGRG RSAACLQPGAWPGRGAAPVRR RPRPAAAGSVREAELLESPLA AHRDC*LARKLNSGGYIPQAEY GKHAGLPLPGARALSCGCRAR APVPAALPHPLLDHQDPGPAGR IYGTGAGTQTLDGSA PRTSRAL GSTQMPEARPLAGWGVAGV WSRG*SR*TRGSAS/SPRPRCA LLALPGA AVSGDLRARNPRGRS PPKAPSGRGGPLPPHRSTPRR
8478	38846	A	8535	3	2494	YQRQSSSPEDPAETASPTYALIA ACQSEIQLQTRQQPCDMAPGPL DCDPVKGSSRKRMLNAPPV VALQPKWEASVPPGSFRFPECF SEADKGVESMSPTMHKELPAL AACGLVADFDPVGEEETADFG PLVLDSDSDSDVDRDIEEAIQEY L/KGGGSRCKRELAHSS/APTAL CSPKLVPGSGG/GGPGSQVGSS KDQGSASPVMSRADSFQESIR AEIEQFLNEKRQHETQKCDGSV EKKPDTHENSASLSKSHQEP TKVVHRQGLMGVQKEFAFCRP PRLAKTNVQPRSLRSKVTTTTT QEKEGSTKPATP/TRPSEAVQN KSGIKRSASTARRGKRVTSAVQ APEASDSSSDGIEEAIQLYQVQ KTRKEADGDPQVRVQLQEERA PAPPAHSTSSATKSALPETHRKT PSKKKPVPTKTTDPGPGDLAD HSPKIPKETKAPPPTSPASRSKF VEWSSCQADTSAELIAVLDFK TILP/APMEGSDGSLASPLFYSP NVPSRSDGDSSSVDSDDSIEQEI WTFLLALKVQSRSLARGAAGQ APERVEKQAPAGAEELPKSKRD SCEGSRKKPPSVFGSRAERTKP RPCSSVDSDDSIELEIRKFLVE KAKESGVPGQAQPCLVKPTLA GEEGLRSPAKQEGLTSAIVAGIS AALGPEHTWVPGATTPTPSVA PVLVPAVPTHWKKLAPACGGP

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8479	38847	A	8536	1	2463	MHKELPALAACGLVADFDVPG EEETADFGPLVLDSDDSVDR DIEEAIQEYL/KGGGSRCRELA HSS/APTALCSPKLVPGSGG/GG PGSQVGSSKDQGSASPVMSRA DSFEQSIRAEIEQFLNEKRQHET QKCDGSVEKKPDTHENSAKSLS KSHQEPATKVVHRQGLMDVQ KEFAFCRPPRLAKTNVQPRSLR SKVTITTTTQEKEGSTKPATP/TR PSEAVQNKSGIKRNASARRGK RVTSIAQAPEASDSSDDGIEEA IQLYQVQKTHKEADGDPPQRV QLQEERAPAPPAHSTSSATKSA LPETHRKTPSKKKPVPTKTTDP GPGDLADHSPKIPKETKAPP TSPASRSKFVEWSSCQADTSAE LIAVLDIFKILP/APMEGSDGS LSASPLFYSPNVPSRSDGDSSSV DSDDSIQEIWTFLLALKVQSRSL LARGESCPQAAQGPLSPPGLSS QTGSPKAPLSKTLDP/LGCKRK HRGGSKAQPARPRDGRAPLG WDL SIQGTASEAPGGEGAARVP GDTRTSQGGKTDEARHLDDK KSEDDKSSSLDSDKDLDTAID LLRESQGPAPSPGSLSDNSSSV SDDSIIEIRKFLVEKAKESGVP GQAQPCWKPTLAGEEGLRSP AKQEGLTSAIVAGISAALGPEH TWVPGATTPTPSVAPVLPAV PTHWKKLAPACGGPGQSLIDID
8480	38848	B	8537	1	3345	

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8481	38849	A	8538	1	1339	MTKKSPGPDSFTGHWCVISIPS GYERSRLKVTLPEEGRGALPFL VSVAISSGSCSDNNAAVPTVLE GATTVISAAAVLRDPHDGAREII LEAMTISAVAIAAEISWTSQCG LCLHPGMFMPYRHDGIRDLLP LVLSATICAEEFKGDSKKPSKK RVKRKPYSTTKVTSGSTFNENI RRYAVHTNQCRPHGSRVKKK RYPQEDDFHHTVFSNLERLDKL QPTLEASEESLVHKDRGDGERP VNARVVQVAPLRLESSKYSGIT CQENNLDAKKA/TP/CRTPYMT SLTRTPHTTSLTRILSTA/SANEA ADKGIANEDAAQGIANEDAAH G\MPARMPPRASPTRSPPRASPT RTPPRASPTRTPPRASPRTPPT GSPRRTPPRASPTRTPSTASPTR TPPMASPTRTLPTALLTRMPCT ASLMRTPYTTSLMRVPYMTSL MTPYKAR
8482	38850	A	8539	1	3090	MHKELPALAACGLVADFDVPG EEETADFGPLVLDSDSDSVDR DIEEAIQEYLVKGSSKDQGSASP VSMSRADSFQESIRAEIEQFLNE KRQHETQKCDGSVEKKPDTHE NSAKSLSKSHQEPATKVVRHQ GLMGVQKEFAFCRPPARLAKTN VQPRSLRSKVTTTTTQEKEGST KPATP/TRPSEAVQNKSGIKRSA STARRGKRVTSAVQAPEASDSS SDDGIEEAIQLYQVQKTHKEAD GDPPQRVQLQEER
8483	38851	A	8540	1	2919	MHKELPALAACGLVADFDVPG EEETADFGPLVLDSDSDSVDR DIEEAIQEYLVKGSSKDQGSASP VSMSRADSFQESIRAEIEQFLNE KRQHETQKCDGSVEKKPDTHE NSAKSLSKSHQEPATKVVRHQ GLMGVQKEFAFCRPPARLAKTN VQPRSLRSKVTTTTTQEKEGST KPATP/TRPSEAVQNKSGIKRSA STARRGKRVTSAVQAPEASDSS SDDGIEEAIQLYQVQKTHKEAD GDPPQRVQLQEER
8484	38852	B	8541	1	1122	
8485	38853	A	8542	1	1074	
8486	38854	B	8543	1	1017	

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8487	38855	A	8544	1	1436	MNLPRALERLRSTPQRSRLRSDG EDGKIDVLGEEDEDEVEDEEE EASQQFLEQSLQPGQLQVARWG GVALPREHIEGGGGPSPSEFG TEFRAPPRSAASSEDARQPAKP PYSYIALITMAILQSPHKRLTLS GICAFISGRFPYYRRKFPAWQN SIRHNLSLNDCFVKIPREPGRPG KGNYSWLDPASQDMFDNGSFL RRRKRFRHQLTPGAHLPHFPF LPAHAALHNPRPGPLLGAAP PQPVPGAYPNTAPGRRPYALLH PHPPRYLLLSAPAYAGAPKKA GADLATPA/ALPVLQPSLATVK PVGQFCSNSSGIRRRRTGNGCAP TKGAVLGGHLSAASAAAASVSG GGRGLWADIARALWAERDLTS FFSIAHAQFPGRVRRALLEPGSR QPHSPTGVQKRPLLNPAGLGQ SKSSETTENRG/CPMSCQLLAGL RSNSPLSVVRKRLRADLPSFIAN KRPGRAATAAEPRRDFL
8488	38856	A	8545	1	1287	MNLPRALERPRSTPQRSRLRSDG EDGKIDVLGEEDEDEVEDEEE EASQKFLEQSLQPGQLQVARWG GVALPREHIEGGGGPSPSEFG TKFRAPPRSAASSEDARQPAKP PYSYIALITMAILQNPHKRLTLS GICAFISGRFPYYRRKFPAWQN SIRHNLSLNE*FVKIPREPGHPG KGNYSWLDPASQDMFDNGSFL RRRKRFRHQLTPGAHLPHFPF LPAHAALHNPRPGPLLGAAP PQPVPGAYPNTAPGRRPYALLH PHPPRYLLLSAPAYAGAPKKA GADLATPGTLPVLQPSLGPQPW E/RGQGSVATGR\GCISFSIESI MQGVRGAGTGAAQSLSPATAW SYCPLLQRPSSLARTILQQQQQH QEEDCANGCAPTKGAVLGGHL SAASALLRYQPVAKGLWADIA AAPLGEGGTSPVFL

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8489	38857	A	8546	202	823	AQNPTAFGVKHTSSGGEETFPN IRGIKKSPQLSSSSIRLSKNILST TGKTVHQTRDDQPRDFFKKR NRVNESHQKSSNMNAGPSWNK VQHSKNSSGKRQSKSQVPHASS QPRSSLTAVTQPTEEKLIESISPE ARRKRNPGLGFRQCQASRNKFL DFQSMKIIKENADEDSASDLS SGKNSHSSFSPTSRSQSS*RN RVNESHQKSSNMNAGPSWNKV QHSKNSSGKRQSKSQVPHASSQ PRSSLTAVTQPTEEKLIESISPEA RRKRNPGLGFRQCQASRNKFLD FQSMKIIKENADEDSASDLS RIPPPSPLTPDLNLRAEEIGSSL L
8490	38858	C	8547	219	1013	
8491	38859	C	8548	252	452	
8492	38860	A	8549	25	443	
8493	38861	A	8550	20	1371	RLRGPALGAGGGSVTLRL/PRS EQAARKEAGLNTMIPLEKPGSG GSVPRRHLRLGPGSSGS*AGRA RTPPPQARGLLTEIRAVVRTEP FQERLQPVPRAGSWAGGKFSSG EKMYKEKILGKNLLQSS*EKRR KISQDCRMEIHEIAVLELAQDN PWVINLHEVYETASEMILVLEY AAGGEIFDQCVADREEAFKEK DVQRLMRQILEGVHFLHTRDV VHLDLKPQNILLTSESPLGDIKI VDFGLSRILKNSEELREIMGTPE YVAPEILSYDPISMATDMWSIG VLTYYMLTGISPFLGNDKQETF LNISQMNL SYSEEEFDVLS VDFIRTLVKKPEDRATAEECL KHPWLTQSSIQEPSFRMEKALE EANALQEGHSVPEINSDTDKSE TEESIVTEELIVVTSYTLGQCRQ SEKEKMEQKAISKRFKEEPLL
8494	38862	A	8551	1	1275	
8495	38863	A	8552	1	4173	

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8496	38864	A	8553	2	5115	PDQFHNMDLRGGPHDGV TIPRS TSDTDLVTSDSRSTLMVSSSY SIGH SQDLVIHWDIKEEVDAGD WIGMYLIDEVLSENFLDYKNRG VNGSHRGQIIWKIDASSYFVEPE TKICFKYYHGVSGALRATTPSV TVKNSAAPIFKSIGADETVQQG GSRRLISFSLSDFQAMGLKKGM FFNPDPLYLKISIQPGKHSIFPALP HHGQERRSKIIGNTVNPWQAE QFSFVSLPTDVLIEVVKDKFAKS RPIIKRFLG
8497	38865	A	8554	202	260	ARVHQPVSLKQRFPLELGRHH QDSEAHAPPPGPAASRGGI*V AWPAPRAGVVSLLGCRSSWTA AMELSAEYLREKLQRDLEAEH VLPSPGGVGQVRGETAASETQ AGERVPSRRAPAHPC
8498	38866	A	8555	72	578	GSKGSVAGARAWVVSLLGCRS RWTAAAMELQRRIPPREAAAGP WRRSMWRWRTRPSTVAPVASE SWWCRPSSRGNRCFQRHSLDPS MTIHCDMVITYGLDQLENCQT CGTNYIISVLNLLTLIVEQINTKL PSSFVEKLFIPSSKLLFLRYHKE KEVVAVAHAVYQAML
8499	38867	A	8556	299	939	LPSPGGVGQVRGETAASETQVL YRAMRRVTAANQAFFSEAEVT AAKERGIVLPLRCADPS\QTIHCD MGVITYGLDQLENCQTCGTNYII SVL\NLLTLIVEQINTKL PSSFVE KLVIPSSKLLFWRYHKEKEVVA VA\HAVLSRPMLQLGRNIPCFG RTAY*V*YWGRKWTCGPLNNL PGTVCNFPEACSEIKHEAFKNH VFNVDNAKFVVKFDLN

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8500	38868	A	8557	1407	2783	SSAASHSSSPGAASRARATAGS RRRSSPIQSCHPPASACGQSGQS ETHRLAMRNRTPPS*GFSSK/H MRRSSSLASS*RG*KSVAVIL*IS ASGILPTDVHLSPTPGSSETCHR PHPGH*EPSDCLQKLPASALG*S *QEQLSHNSPRSA*AQYA/ESSG NSFFSSKVG D*RFTTTVA PGGP GRRTLPGKPSPEHPHRLPELPPP RSPAQVCDQTLVAPHDHNTAG/ TPGDQVCLTLVSTSRSLSVLSK GCFFLHHSTLSVQAGVRHLSLV S*AAEPTSYL*VGPKLMAFS*K LKIRTRKPRADDSPGTSRYSSA HTRTRKPRADDSPGTSRYSHAH TRMWKPRADDSRHHSRYSTGCR SPGQMTLHAPADTALHTPG/PR KPRADDSPGTSRYSTAHTRTRK PRADDSPGTSRYSTAHTRTQKP RADDSTGTSRYSTPLASRRHRI AASASWALVVLICLTL
8501	38869	A	8558	92	1817	PLRNTGLCRGKGHPGLESSGR RRRDGRASERRQTQRERGKTL CSSHSPWWLKANASAPAVWSQ AHRTQKPRADDSPGTSRYSTAH TRTRKPRADDSPGT PDTALQTP GRRSPGQMTPGTSRYSTGRGSP GQMTPGTSRYSTERRSPGQMTL QTPADTAQDAEAQGR*LQAPA DTALHTPGRRSPGQMTLQAPA DTALHTPGHRSRGKMTLQAPA DTALHTPGRGSPGQMTLQAPA DTALHTPERSEPGQMT PRRPA DTALHTPGRGSPAQMTLQAPA DTALHTPGRRSPGKMTPGTSRY SHAHTRTRKPRADDSPGTSRYST AHTRTQKPRADDSPGTSRYSTA HTRMRKPRADDSRHHSRYSTGC RSPGQMTLQAPADTALHTPG/P RKPRADDSPGTSRYSTAHTRTR KPRADDSPGTSRYSTAHTRIRK PRADDSPGTSRYSTAHTRTQKP RADD SRHQIQHRMQKPRADD SPGTRYSIAHTRTRKPRADDS GTSRYSTAHTRTRKPRADDS TSRYSTAHTRTQKPRADDS SGT SRYSTRAGCCPPGLASSAWAGL RLKTRKGWTW

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8502	38870	A	8559	13	299	EKGQDILQNLFWQLRHGPIMSS \PSASNTGWGSSS*SIVPSSTVSS WSTAMKLSSSLSEELAMTFHST ENIVVLGWVQWLTPVVPALWD SEAGRSP
8503	38871	A	8560	337	1879	VHVGAAARRGFGVYPVLSLTVS GTQNCGPCLQTVVSTYQRV*PI SVIMVS*RLSRKETFSGRAVPILI LEPQSLASRTVHAIMM/HNQS MYVFGGCTQSSCNAAFNDLWR LDLNSKEWIRPLASGSYSPKA GATLVVYKDLLVLFGGWTRPS PYPLHQPERFFDEIHTYSPSKN WWNCIVTTHGPPPMAGHSSCVI DDKMIVFGGSLGSRQMSNDVW VLDLEQWAWSKPNISGPSHPR GGQSQLFKDAWLLHMHSGPW AWQPLKVENEHGAPELWCHP ACRVGQCVVVSQAPSGRAPLS PSLNSRPSISATPPALVPETREY RSQSPVRSMDEAPCVNGRWGT LRPRAQRQTPSGSREGSLSPAR GDGSPILNGGSLSPGTAAVGGS SLDSPVQAISPSTPSAPEGYDLK IGLSLAPRRGSLPDQKDLRLGSI DLNWDLKPASSSNPMDGMDN RTVGGSMRHPPEQTNGVHTPP HVASALAGAVSPGALRRSLEAI KAMSSKGPSASGRH
8504	38872	A	8561	25	313	

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8505	38873	A	8562	1	1409	MIERVLEGKWALSRAEGLHRH QCLEFLIHLVFQLMKVVNEMCP NITRIYNIGKSHQGLKLYAVEIS DHPGEHEVGEPEFHYYIAGAHGN EVLGRELLLLLVQFVCQEYLAR NARIVHLVEETRIHVLP SLNPDG YEKAYEGGSELGGWSLGRWTH DGIDINNNFPDLNTLLWEAEDR QNVPRKVPNHYYIAIPEWFLSEN ATVAAETRAVIAWMEKIPFVLG GNLQGGELVVAYPYDLVRSPW KTQEHTPTPDDHVFRWLAYS ASTHRLMTDARRRVCHTEDFQ KEEGTVNGASWHTVAGSLNDF SYLHTNCFELSIYVGCDKYPHE SQLPEEWENNRESLIVFMEQVH RGIKGLVRDSHGKGIPNAIISVE GINHDIRTA\TDGDYWRLLNP\G EYVVTAKAGRFHCIPRTCMV GYDMGAHK/CLNFTLSKTNLA RIRRDHWSFGKAAPSALPSPG G*KLRG\RKRRQRG
8506	38874	A	8563	3	749	KTDHILGHKTCLKTRKIEIISGI LSDHSGIKLQINNKGNGFNHTS TWKLNNMLLNDQ*VNEEIKKEI *NHPETNDNGNATYQNL*DTG KEVLRGKL/IPISTYIK*VEKLQI NNLTMHLKELEKPEQTKRKITR RKEIIRAEINEIEAKKTIPKFN ETNSWFLENIHKTNEHLARLRK KDPNKIREEKEDIITDTVEIQRII RSYYAKK WENLEETDKFLDTY NLPRLNNEEVQNL SRPITTTVPI
8507	38875	A	8564	1	842	

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8508	38876	A	8565	1	1203	VPELFGNCRQLLEEVEVAT*PR RFRDSPGGSVQGLWTS LRRAAE MLFPVHLVRPRM*ILERFVPHA LDYLLGSRLFKEPLPLKQVNPS RSLDHLQVAREHFINYL TQCH CYHVAEFELPKTMNNSAENHT ANSSMAYPSLVAMASQRQAKI QRYKQKKELEHRLSAMKSAVE SGQADDERVRGYLLHLQRW VDISLEEIESIDQEIKILRERDSSR EASTSNSSSRQERPPVKPFHSHF GTWLHSQSTFGAGYSKGWPTY RTVS\DWYE\QHRKLWSTYPDQ G\AKAAPEEFRKAAQQQEDQ\ KKRRKRMRTKQLPQSPGVGM TGSDTHP*GPMGTDRTWADLP TTPQD\SGVH\TPLPRKTMQSSP PPVSWLQLCTTEGKDAKSCFAF SKVSSDLSVYL P
8509	38877	A	8566	1	995	GTKELLLT*LGGSPLLLT*TKPL GVDPLILKGGVTQGFNEKAVFA ALRPSYGGPAGKPAFAGAMSL AGAQQSLWSVEGGNKLVCSSL LKLTKANVIHATVTSVTLHSTE GKALYQVAYENEVGNSSDFYD IVVIATPLHLDNSSSNLTFAGFH PPIDDVQGSFQPTVVS LVHGYL NSSYFRFPRP*AFPL\SNILTTDF PSFFCTLDNICPVNISASFRRKQP QDAAVWRVQSTKPLFRTQLKT LFRSYYSVQTAGVGRANPLYG FRPHGFPRFALHDQLFYLNAL E WAASSVEVMAVA AKNVAF AW LYNRWYQDL DKIDQKDLMHK
8510	38878	A	8567	1	372	

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8511	38879	A	8568	1	1699	MHAHSIKTQALADMEKLKVVV RDKNWVARIIPQMTSKGHVGV TTTSSAKLKSQKDSVAVKRV RSGLMIGFRFMVIPPSYFGPQVL MEIPKADADKLLCPSCAAVVLG QKKHETQTLSELKELPVQDNVV PKEDPGTWERTVKEGILEEV MCWLQSRVEGDWAKEERKIFH EGELAEAKAGRGGASCTCCPL TPGKMAGPWTFTLLCGLLAAT LIQATLSPTAVLILGPKIVIKEKL TQELKDHNATSILQQLPLLIAM REKPAGGIPVLGSLVNTVLKHII WLKVITANILQLQVKPSANDQE LLVKIPLDMVAGFNTPLVKTIV EFHMTTEAQATIRMDTSASGPT RLVLSDCATSHGSLRIQLLHKL SFLVNALAKQVMNLLVPSLPNL VKNQLCPVIEASFNGMYADLL QLVKVPISLSIDRLE/F*PSVSCH QG*HHSALPGGQVVGLTGKGD QVVHNSAASLTMPITLDNIPFSL IVSQDVVKAAVAAVLSPEEFM VLLDSVLPESAHLKSSIGLINE KAADKLGSTQIVKILTQDTPEFF YRPRPCQGGPTDRAGSVSLQ
8512	38880	A	8569	1	1060	MGLPAQGVGGNTLAKLLASDD IAKGGKRNKSEASVVRNAADA PKVLQDLSARLMGDFELRNCN SPCTLLIGIVVLINAAAETLVFLS DHMEDQGSSQLNVAVLSYFQQ QDPEGQKEETAGIDLMDMASDI LQPKGDDVARISWYLRDIITRY QETFNVIERCPKPVIAAVHGGCI GGGGAAAPMPRPLASSLSVM GQTVSQEAAPPPGSQGWFWWS FSIPGLYLLGVDLVACDIRYC AQDAFFQVKEVDVGLAADVGT LQRLPKVIGNQSLVNELAFAR KMMADEISSKSPVALQ/S/TKVN LLYSRDHSVAESLNYVASWNM SMLQTQDLVKSQATTENKEL KTVTFSKL
8513	38881	B	8570	331	1200	
8514	38882	A	8571	3	379	TSLTFHSPEVPSS*PPSCTR*AGA ARGPRPPGAAGRPR*SC*GPPGT RRWQS*GGTSPLGPVPGGRSGA ASCGLPDCEL*PLKRSAGGRNQ CPV*SSPRSWRSRSEPCAARG WPPSACRHGNRR

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8515	38883	A	8572	384	1718	SLQLPRGLLPESCAADPGA*PPS CTR*AGAARGPRPPGAAGRPR* SC*GPPGT/PALAKPPSPPVVS AAPTQARPMIKPOGAAWSTQK LPIPTSASPTQKSPIPTSASSTQK LPIPTAAWSTQKLPIPTAAWST QKLPIPTAAWSTQKLPIPTAAW STQKLPIPTAASSTQKLPMPTAA SSTQKSPIPTAASSTQKLPIPTAA WST*KLPITRAAWSTQKLPIPTA ASSTQKYTIATAASYHAKATDA WST*KLPIPRAAWST*KLPIPTA AWSTQKLPIPTAASSTQKSPIPT AASSTQKLPMPTAAWSTQKLPI PTAAWSTQKLPIPTAASSTQKL PMPTAASSTQKLPMPTAAWSTI TTMGATTHGPPSTDTQNVVFLH PRCPEQASSQRSGAGAD*GLSN PKVSSAEAPSCAKDEPEVEKGR GPAPWTSQRWRAVGRPRG
8516	38884	A	8573	302	543	KLHLGWGKTPG*HWGLY*NLP RLNGPNSLMPSLRRVRRNKAR QVTSIAGCALQMEQWMHGMT RHPTRISTPITAAREVRI
8517	38885	C	8574	253	396	
8518	38886	A	8575	1107	1751	LQDLSQYFGGSQLIKT*IG*TTSI ITNSNL*TTLEM/SVKGIAEQLG TNCQMAWENRIALDMILAERG GVCIMIKTECCAFIPNNTAPNGS ITKALQGLTALSNELASSGVN DPFTGWLEKWFGKWKGITASIL TSLTAVMGVLILVGCCVIPCICG LVQRHRGPPLVVIETKPLGLER LAGLPVGHALKLGSGIQATPQN GENADRREAFPAAS
8519	38887	A	8576	1	1365	
8520	38888	A	8577	3	263	QLILKDKFITQSAADIKEKLQKS TLGPERNLKTLNLAT/CCFL** RSGGAGGTGQTR*EKGHHFSH GPRASGLWRLWNAESLGKSNA
8521	38889	A	8578	365	470	
8522	38890	A	8579	1	1278	
8523	38891	A	8580	23	257	
8524	38892	A	8581	1	1812	

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8525	38893	A	8582	265	699	LLGSTVLFHDPQLLIELYHSSHG PKVPFLGIREAKNSRSENTRLAT ILGAGLLPSWKWFTTILGAL*A RTPR*HFGNH/VTDIQS/RIEAVK LQMEPKMQSKTKIYRRPLDRPA SPRSDVNDIKGTPREEISAACKPL LRPNSAGSS
8526	38894	A	8583	2	181	
8527	38895	A	8584	1	69	
8528	38896	A	8585	1	674	MDLNYTLEQMDLTDIYRTFHPT TTEYTFYSTGHGTFSKTDDVIG HKMSLDKFKKIEMISNTVSDHS GIKLEINSERNLENHANTWKLN NLLLNECWVKNKMKMEIKKLF ELNDNNDTTYHNLWDRAKVVI RGKCIALNTYIKKSERAQTDNL RIKKNHMIISIDAEKAFDKIQH PFMIKTLISKISIRGTYLNLIKDI/S *QTHSQHNAEWGKIESIHSENW NRG
8529	38897	B	8586	1	415	
8530	38898	A	8587	1	516	
8531	38899	B	8588	110	382	
8532	38900	A	8589	140	253	QNKACQHPPKITRVHQQWIQT KKKSSYLLKKEFRRLVIKLIREA PEEGKAQCCEVQKLIQKVQGEI IDEIDTINKKQPKLQETMDLTK MQNAQESLSNRIEQEEHHSKSL ENIFGSIMEENFPSLARDLDSQI QEAQRTPGKFITKRSSPRHIVIR LSKVKTKERILRVVRQKRKIVL KS*PGNMTKQGLSTSPKNHTSS PTMDPNQEEILDPEKRIQEVSY
8533	38901	A	8590	89	194	
8534	38902	A	8591	2	633	

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8535	38903	A	8592	298	2648	GSSKILLFNQNEDDKINFELFFF FVASALVLVQKAFSRSWSSMA LADKRLLENLQIYKVLQCVRNK DKKQIEKLTKLGYPELINYTEPI NGLSALHLASVSNDIDMVSFLL DLGAHPDVQDRMGCTPTMRA AELGHELMEILAKAKADMTIV DNEGKVLEGTGGLTSSPLAHIA VALHIPRRDTQGVLFYCILPTKR HYRCALIALEHGADVNNSTYE GKPIFLRACEDAHVDKDVCLTF LEKGANPNAINSILKLLFAYNG DVGLISINGNTPLHYAAMGGFA DCCKYIAQRGCDLKWKNLDHK TPRAVAKEGGFKAASKEIRR/C RENR**TSQARSQKSQIPLWAL RLHDWSVEREAFLEAFVLD RGDGSISKNDFVMVLEEISRM QAQNSWLPFAHLHEKTRGGGV NIN*ILLKEPDILNKSFVLGSYGP KKKEKGMGKKGKKGKGVLP ICVIPEYAFPRRQDGGPPYIMIE TYKNVTDSSRFNRDHPPEHPIQ DDSVWYIDDSEKVFSNINIITKA GDLASLKKAFESGIPVDMKDN YYKTPLMTACASGNIDVVKFLL EKGYASPSGQQDIVELLVESGA LIDAASJNNSTPLNRAIESCRLD TVKYLLDIGAKFQLENRKGHSA MDVAKAYADYRIIDLIKEKLDN LPKPAENQKLKGKTPILKTEG PEIKKEEELLSSIYGVPTTSEK
8536	38904	A	8593	3	838	MGRGWTQAVGPRWSGGSSCTL YSVGADGRGQGHQSRGCRPPG PPSASSAPCLAWGAAGRARE GLRQNAERSSPLTAPAGRP*PC GAGPCRR*SR*R\PLVGCLRPW ASPGTGAACGRCCCP*P/P*P NPWHFTVSKAFSYMPSTTA/RL VRGPRLLVGPVPVAPYIPP/PGS PASRRGSRGRSRSPRPRPSV LSCHGVSL*TGPSLPGWLLQIW QRSQMS/P/PPKGPP*GSREGPP PP/GPALLPAAAPGGQGHRA AGSCGRRAAARRMEWVRNSPP
8537	38905	B	8594	1	2700	

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8538	38906	A	8595	1	1240	FPPYATNEIGKVTGLNRRELGH GALAEKALYPVIPRDFPFTIRVT SEVLESNGMRRIGQPPASSRPV RRVRAPLPPPLLEVRAPLPASRP SGEVLCTVTFDSLESIGKSDQVI TAINGIKDKNFMLHYEFPPYAT NEIGKVTGLNRRELGHGALAE KALYPVIPRDFPFTIRVTSEVLE SNGMRRIGQPPASSRPVRRVRA PLPPPLLEVRAPLPASRPSGEVL CTVTFDSLESIGKSDQVITAINGI KDKNFMLHYEFPPYATNEIGKV TGLNRRELGHGALAEKALYPVI PRDFPFTIRVTSEVLESNGSSSM ASACGGSLALMDSGVPISAV AGRTN*DWSPKPDPEKGEIRKII VC*QIFLGIEDYNGDMDFKIAG TNKGITALQADIKLPGIPIKIVM EAIQQASVAKKEILQIMNKTISK PRASRKENGPPVETVQVPLSKR AKFVGPGGYNLKKLQAETGVT ISQVDEETVFCNLHQHPVLMLE GKRLSFTEICKDDQEQAIRNLG AVILPAHNNWKSEILGVMGKII
8539	38907	A	8596	152	305	DNQNGKLIKCS*PCNFVHRAPY AVEITVLRFCNWTVQVAQRE RTFLILIK
8540	38908	C	8597	414	611	
8541	38909	B	8598	1	403	

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8542	38910	A	8599	1	1702	MDSDEGYNYEFDEDEECSEEDS GAEEEEDEDDDEPDDDTLDLG EVELVEPGLGVGGERDGLLCG ETGGGGGSALPGGGGGGGGG GGGGGPGHEQEEDYRYEVLTS EMILQHMVECIREVNEVIQNPA TITRILLSHFNWDKEKLMERYF DGNLEKLFAECHVINPSKKSRT RQM\NTRSSAQDMPQCQICYLNY PNSYFTGLECGHKFCMQCWSE YLTTKIMEEGMQTISCPAHGC DILVDDNTVMRLITDSKVKLKY QHLITNSFVECNRLKWCAPD CHHVVKVQYPDAKPVRCKCGR QFCFNCGENWHPV\QCKWLK KWIKKDDDDSETSNWIAANTK ECPKCHVTIEKDGGCNHMVCR NQNCKAEFCWVCLGPWEPHG\ SAWDTVPV*NEDDAKAARDAQ ERSRAALQSYLFYCWRYMNH MQSLRF\EHRLYAQ\VTQTME MQQHNMSWIEVQFLKKAVDV LCQCRATLMTYTVFAFY\LLK NKPSFHIFENNPkarFDENATE GLSG\YLGTRKFPKDS\LQDIKQ KVPRPSTRYCESRRKGFVTSMC HEGYEKDLWEYIED
8543	38911	C	8600	118	219	
8544	38912	C	8601	16	408	
8545	38913	B	8602	1	996	
8546	38914	B	8603	1	1302	

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8547	38915	A	8604	983	2127	DNWKSIRGSCWQDPRELLTFM APCIGVVVMQTTR*K*NTLAGH PSAGVCWCVTSAAACTGAWD ATSPLSSTFATAPGLPRCCSQAS PAPRAEPLHGQPGAPPHALKRP PGLPWP*PQEARQYRHNQAYA YSIQGDGAEDDDERIVRFHTRV INHKKRKNSPRIVQSNDLTEAA YSLSRDQKRMLYLFVDQIRKSD GTLQEHDGICEIHVAKYAEIFGL TSAEASKDIRQALKSFAGKEVV FYRPEEDAGDEKGYESFPWFIK RAHSPSRGLYSVHINPYLIPFFIG LQNRFTQFRLSETKEITNPYAM RLYESLCQYRKPDGSGIVSLKID WIIERYQLPQSYQRMDFRRRF LQHIFVLRERPETVLIDLIQRTK DAVRELDNLQYRKMKKLLFQE AHNGPAVEAQEEEEYGWNL RAYDYVKERRTVTKPNPSFMR QLEEQGILLARPKRTAYIYGS VYRRCGYADHKVEIKHPGWAS ISRGVLVCDECCSVHRSLSGRHIS IVKHLRHSAWPPTLLQSGFPGP SRRAAPRAARGPTPRTEEAAW AAMALTFLLVLLTLATLCTRLH RNFRRGESIWGPTADSQDTVA GSPDHGLLAFAYHRLVRFLLW VLCPGWAFFLVNSSRGGVFNP LHPCPRHGQARFAGVGRAEDV TFLYHPCAHPWLKLQLALLAY ACMANPSLTPDFSLTQDRVDIE
8548	38916	A	8605	1	224	RKQEWLSKQKENIQHFQAE ANLLRRQRQYLELECRRFKRR MLLGRHNLEQDLVREELNKRQ TQKDLEHAMLLRQHESMQELE FRHLNTIQKMRCELIRLQHQTE LTNQLEYNKRRERELRRKHVM EVRQQPKGLKSKELPNKKSSFQ GYLQNSQTRQYKALRNHLL TPKSEHKAVLKRLEEQTRKLA ILAEQYDHSINEMLSTQAVSLLF LGQNKFSAPFLPPP*AVSEQLCA HSLV

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8549	38917	A	8606	1051	1875	SDQLTAHLLNCVEVAELQFLHR FMLSFIPHHLLRLFTAPAQDASL VPLKGDILGVKLSGDDGRGKP AQHLFLSGLSSSQQLPVLPSQ CQSLCVHHPAVVVNLHDHGAC VSCLPDLGP* RQSCGSLAARSC GQSPGVWCLPSGSGRSSTLCRC H* GRSWTPGAPS** TPISSPRRSP GPCAASPGARGCPPAASPPAGS PGTEAPAAPAPGPGYSQPPGAL SSRCDSPCPLRRAPGAHGHTP RCPSVVARCRGVRPRGSSCSMS TSLTRSCSKL
8550	38918	A	8607	714	2148	MPAVAKSKFINRSKRRMCPQV LRSASPIQEGEKISANENSLAVR STPAEDDSPGDSQVKSEVQQPV HPKPLSPDSRASSLSESSPPKAM KKFQAPARETCVECQKTVYPM ERLLANQQVFHISCFRCSYCNN K\LSLGTYASLHGRIYCKPHFNQ LFKS\KG\NYDEGFGRPHKDLI GQAKMKTEEILER\QPQLANAR ETPHSPGVEDAPIAKVGVLAAS MEAKASSQKEKEDKPAETKKL RIA WPPPTELGSSGSALEEGIKM SKPKWPPPEDEISKPEVPEDVDL DLKKLRRSSSLKERSRPFTVAA SFQSTSVKSPKTVSP\LRKGWS MSEQSEESVGGRVAERKQVEN AKASKKNGNVGKTTWQNKES KGETGKR/R* GKVHSLEMENEN \FV\ENGARLPIEDDNQLPPKQQ SSTKNPSLLEFGPSFVDNHLLK EFTT\QNQKSQDVELWEGEVVK ELSVEEQIKRNRYYDEDEDEE
8551	38919	A	8608	1	4479	MCFSPKKLYKHEIHKLDLTCL KPSIESPLRQNRSRSEEEQKQE ENGDSQLILEKJQLPQWSISLNM TDEHGNLVNLVCDIKKPMDEVY KIHNLQTDPPDIDINAMVALDF EYPMTQENYENLWKLIAYYSE VPMKLHRELMLSKHPRVSYQY RQDADEEALYYTGVRQAQILAEP EWIMQPSIDIQLNRPQSTAKKV LLSYYNQYSQTIATKDTRQARG RSWVMIEPSRAVQKDQTVLEG GRCQLSCNVKASESP

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8552	38920	A	8609	1	9009	MDEFAPGKHLATSGDLFGDHN YGRRTYHTLEVKCAEEHPAVS DPFQRQSLRALSPLSEDLPPSSG LRSGLTKELELLMIHGNEIPSIPD GALRDLSSLQVFKFSYNKLRVI TGQTLQGLSNLMRLHIDHNKIE FIHPQAFNGLTSLRLLHLEGNLL HQLHPSTFSTFTFLDYFRLSTIR HLYLAENMVRTLPASMLRNMP LLENLYLQGNPWTCDCEMRWF LEWDAKSRGHSCRGCAHSLSH EIQLAKGFCEMLLL
8553	38921	A	8610	1	4971	MKASGILKCKKDKAYEGGQLC AMCFSPKKLYKHEIHKLDLTC LKPSIESPLRQNRSRSEEEQKQ EENGDSQLILEKIQLPQWSISLN MTDEHGNLVNLVCDIKKPM DV YKIHLNQTDPDIDINAMVALD FEYPMQTENYENLWKLIAYYS EVPMKLHRELMLS KHPRVSYQ YRQDADEEALYYTG VRAQILA EPEWIMQPSIDIQLNRPQSTAKK VLLSYYNQYSQTIA TKDTRQAR GRSWVMIEPSRAVQK
8554	38922	A	8611	1	1283	LSFTTCSTFSTNYRSLGPAQAPS YG/SRPVSSVASVYAGTGNSGS RISVSCSTSFSGMESGGLAAG MT/GGLAGMGGIQNEETMQSL ND/*LASYPDRVRHLETKNRKL ESKIWEHLEKKGPQVRDWSHY FKTIRNQRAQSLAITVDNACIVL QINNTHLAADDFRVKYETELA MCQSVESNIHGLCKVND DTV TRLQLETEIKALKEELFMKKN HEEEVKGLQAQIASSGLTMEVD PKSQHLAKIMAAIRAQYDELA WKNGEELDKYLSQQIEESTTVV TTQSAKAGAAEMTLTEL RCTV QSLEINLNSMRNLKASLENSVR EVKACYTLQMEQLNGILLHLGS ELAQTQAKGQCQAQ EYEALLN IKVKLEAEIATYCHLLEDGKDF NLGDALDSSNSMQTIPKTTTHQ RVDGKVVSETNDTKVLRH

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8555	38923	A	8612	2	1365	RPQSLSPVLSLSPDSMSFTTRST FSTNYRSLGVSQAPSYGARPV SAASVYAGAGGSGSRISVSRST SFRGGMGSGGLATGIAGGLAG MGGIQNEKETMQLNDGVASY LDRVRSLETENRRLESKIREHLE KKGPPQVRDWSHYFKIHEDLRAQ IFANTVDNARIVLQIDNARLAA DDFRVKYETELAMRQS\VENDI HGLRKVIDDTNITRLQLETEIEA LKEELLFMKKNHHEEVKGLQA QIASSG\LTVEVDAPKSQDLAK\ IMADIR\AQY*RAGLGKNREE\N DKYW\SQQIEVSTTVVTTQSAE V\GAA\ETTLTELRRTVQSLEID LDSMRNLKASLENSLREVEA/R RTPLQMEQLQRGSLHLESELA QT\RAEGQRQA\QEYEALLEHQ GSSLEAEI\ATYRRLLEDGEDFN L\GDALDSSNSMQTIQKTTTTRI VDGKVV\SETNNDTKVLRH
8556	38924	A	8613	170	399	
8557	38925	A	8614	141	287	LPSRRAGLGTCSPCLSLPPASR APVRPEPLR*APPPAPRRPVPST TQG
8558	38926	A	8615	356	574	
8559	38927	A	8616	552	770	
8560	38928	A	8617	158	368	
8561	38929	A	8618	1136	1410	
8562	38930	B	8619	1	631	
8563	38931	B	8620	321	2234	
8564	38932	A	8621	170	444	
8565	38933	A	8622	325	722	LIELRHLVFFVLLLFRDLQHIMA CNMRDAVRFFVCFLVIFFREGL SRSSGA/DDRFLAGP*LLSRGAG LGTCSPCLSLPTPWAP/AAAP ASLT\TPPPAPRRPVPSTTQGLRS ASARHGTGRQLHLQPRCGIH
8566	38934	C	8623	1	1449	
8567	38935	A	8624	326	626	LPSHGAGLGTCSPCLSLPPPLW AP/AAAEPQRQAPPPAPWCPVPS TTQGLRNASTRRRTGRQLHMI WFPASLKSSPATLPCEHCAPTT LTFSCSSNMQT
8568	38936	A	8625	2009	2227	
8569	38937	B	8626	182	1513	
8570	38938	A	8627	497	761	NHTSCLPLPGTTAEELPSLVA GFGTCSPCLSLPTPWAPVRPE PPR*APPPAPQRPVPSTTQGLRN ASTRHRTGRQLHLQPRCGIH

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8571	38939	A	8628	218	855	GAGLGTCSPPCLSLPPTQRA PV RPEPPRRAPPPAPRRPV PSTTQG LRSASTRHRTGRQLHLQ PQCGV H*VKPAGLLSLALETRTN PAA/ DKHLWQSIISLQLKSDLL KEM L GSQTGNGNVQDVLRYLV KSET QKAIVSLDCVRKRYRSSL SL QLKLCDCWGQALFSSALT DLP KEVVVRDLEELSNYKTT LEGSG IFDSVARVREESEAEGT
8572	38940	A	8629	350	615	
8573	38941	A	8630	186	566	RLLSPAACRSGTMIFPSI HPSQC RMIGLGWKK*SSVHNATP WAP VPPEPPGRAPPPAPGRPV PLTTQ GLRSASARRRTGRQLHLQ PQCG IHWVKPAGLLSHEGPRLR SSSQ SDQEPTNSGHS GMCL
8574	38942	A	8631	656	874	
8575	38943	A	8632	415	634	LPSRGAGLGNCSPCLSL PPTPW APVQHKPPRRAPPTPRH PVPS TTQGLRNASAWRRSGRH LHLQ PQCGIH
8576	38944	A	8633	2	264	NKQPIWIPSRHLKPYHEP DAKE EIPGGS*GPTSCSHVETD AEEDP NCHEQHLSNTATHLGTDQ EAVI DGRRKPEESRTTSHICRC RS

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8577	38945	A	8634	1	1743	MGQVWALVHSTLETFTDEEE GEYNEVTEQVCLPAKAGSAAV DLCCTKAVSLLPGESPQKVPTG AGGPLPAGMTGLLLGRSSLNIK AVQVQTGVTDSDYNGEIQVTS TSVPWKAKPGDHIAQLLIVPKK FARFEGTASSGKTKFLPRFRISF LMAAIVKPPPIPLKWLTDKPI WTEQWPLSKEKLEALEDLITQQ LKKGHIAPTFSPWNSPVFIKKK SAEQDCEWFVFTILAVNNLQLK PAKRFWKVLPPQGNQQPIWIP SRYLKPYHKPDAKEEIPESQG FPVAAMSRLTLRRTPTVTSNTH RTQPPTWGQIEKLQMAEENLR KAGQPTISNWILPRITKFKPIE GAENVFTDGSSNGKASYSGSK GPLTEGNQMADRLVAKVISNA RHFHNLTHVNASGLKRRYSIT WKEAKAIIQRCPTCQVMLSAAE QHLQKSAKTEAEKLVWWRD PITKSREIGKIITWGRGYACVSP GPNQQPIWIPSKHLKPYHKPDA GEKIPGESR/ETPGCSHVKTDAE EDANCHEQHPSNTATHLGTQDQ EAVTDGGRKPEESGTTSHNE*F NDSGDHCLQQGL
8578	38946	A	8635	820	1344	PDGTTRDAGRGDLRSVSWETL RGCPAVRKDSIGWIRLSRTLKK NVHLCPLPRGQGLFVCPVTSSS PQHISSHRGFWNISKDAPMSWP GSYSCHNVVAPVGQGG*SRRA RMLRGLLSKAGHHSFCTDQAID LEITKFTFTWTD*VTLGQ*FMLS ES*SSCKPNSCCPVQCLVHSGG
8579	38947	A	8636	3	760	

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8580	38948	A	8637	1	1354	MGISCPGSSKMLNSRALPVLKL TQGALRDCRERANYTNFNIYK AVESQGKFVCLVYNGQQSPEY VMIPCTSVSPTGQEVPEDRGMR MVMKNKPNKPSKMQLKSSKH LTNSVIVIAVGIFSVTLQARDP QLDDAIEQLRGVCIRAW EKITS GGEQYPSFSAIKQGPKEPYIDFI ARLQESLKKMIADSAAQDIVLQ LLAFDNANPDCQAALRPIRGKA HLVDCIKACDDIGDGSSNGKAS YFGSKSKVFQTSYTSQAELV AVIEVLTA FDM PINVISDSSYM VYSTQLIENAQLRFHTDEQLMT LFTQLQTA FRSTMHPFYITHIRA R\HTPLPGPLTEGNQMADCLVA TAVSNARHFHNLTHVNASGLK CRYSNTWKA AKAHQRRPTCQ MVHSSSFTGGVNPQGLEPNSL WQMDVTHVPSFGRLAYVHVC VDTFSHFVWATCQSGES
8581	38949	A	8638	596	1820	
8582	38950	A	8639	275	1495	RLGSSLLEYT/LPDQQGNIIATFE PFPFKFGKAHSVDYIKACDGIG GPLTEGNQMADCLVAN AISNA RHFHNLTHVNASGLKRRYSIT WKEAKAIIQQCPTCQMVHSSSF TGGVNPRGLEPNSLWQMDVTH VPSFGRLAYVHVCVDTFSHFV WATYQSGESSACVS\KHPLLQC FVVVGIPAFIKTDNAPGYTSQA LATFFSVWNIKHITGIPYNSQGG AIVERMNLSLKQQLQKQKGGN RDYR/TTP*MQNLALLTLNFLS LPKGQMFSAAEQHLQKPAAKT KTEQLIWWRD LITKSWEIGKIIT WGRGYAYISPGQNQQPIWIPSR HLKPYHEPDA\RKRLQEDPEDP PSCSHVKTDAEEDPNCHEQHPS NTAIHLRSDQEA VTDGRRKPEE WSGTRTWWRPWSCRT
8583	38951	A	8640	232	789	ERPWGPEGNSEGSFCPKGLEPR TCLRGPAASAAAGAEGRQDPP GGPWCSAAGDLGSPGVQSPG GGSPRGAQVAMSGSRRRRAEP GVWGALQ*HRR*ARRMHSFPP SL/PLL*NG*SPLFLVSKCLTGSP LRSASPCPPAARSC*KHPDSSPG RGPGARQSPALHPALPSLARRA APGRSFPLTSRK
8584	38952	A	8641	1	149	

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8585	38953	A	8642	1	2541	
8586	38954	A	8643	1	989	MQRGQQATGSSANAWGILQPK WVQTGPDNKRMARNVLYER LLAESPNNHVVAEAVIQRPNIPHL QTRDTYEGLCQTLGSQPTLYQI PSLYCSYETNSNAYLLLQPIRKE VIHLEPYIALYHDFVSDSEAQKI RELAEPWLQRSVVASGEKQLQ VEYRISKSAWLKDTVDPKLVTL NHRIAALTGLDVRPPYAEYLQV VNYGIGGGHYEPHFDHATSPSSP LYRMKSGNRVATFMIYLSSVE AGGATAFIYANLSVPVVRVVQ/ WPGTS*AFDNQCQNAALFWW NLHRSGEGSDTLHAGCPVLV GDKWVANKWIHEYGQEFRRPC
8587	38955	A	8644	2	505	AWLKDTVDPKLVTLNHRIAAL TGLDVRPPYAEYLQVVNYGIG GHYEPHFDHATSPSSPLYRMKS GNRVATFMIYLSSVEAGGATAF IYANLSVPVVRVVQ/WPGTS*A FDNQCQNAALFWWNLHRSGE GSDTLHAGCPVLVGDKWVA NKWIHEYGQEFRRPCSSSPED
8588	38956	A	8645	298	401	KKSLVRRSWRMKELKKKIGQ Y*RKLGRLLKGKAI
8589	38957	A	8646	1	417	FRAAPAPESGGESVFGETHRAL QGAMEKLQR/RLWKEKVDLKE RVEKLELQFIHLSGQTDITGRK YISQGAVSETQHWE/KEDIVRL AQDQEEMKVNQLQELR/EQVLQ LVGDHKEGHGK/FLTIAQNPAD EPTLGAPIAQELGC
8590	38958	A	8647	2	430	AAVKPLGSAETA VPIARLGCRR FSRSRCCRRRGRGSLLSFSAK VAFFNSAGANAQEEQRVCCQP LAHPVASSQKKPEVAAPAPESG GESVFGETHRALQGAMEKLQR/ RLWKEKVDLKERVEKLELQFIH LSGQTDTHNKISY
8591	38959	A	8648	1	2769	
8592	38960	A	8649	1	314	FVNLFEIPVRVVEFGATCRAVA EPEQQR*SPSARPPCPLLASV AAALAAAAAAAAGGEAAYCL SPRRR*GAVSARPAGEPREPHE WNNRRSDFKRRRRGRDG
8593	38961	B	8650	46	307	
8594	38962	C	8651	1	4584	
8595	38963	B	8652	438	532	
8596	38964	B	8653	832	927	

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8597	38965	A	8654	320	1136	RIMETIANLSSQSPVSLPLRVGL AEYLEMEED/DLDSEQEAPRPM PNIPGDLESREP/QVAFFNSAGA SAQEEQRVCCQPLAHPVASSQK KPEVAAPAPESGGESVFGETHR ALQGAMEKLQVTTLWKEKVD LKERVEKLELQFIHLSGQTDITV SERLGHRWGELPGHPRGPSI*A MSSCRKVHQPGGSVRDAALGE EDIVRLAQDQEEMKVNQLQELR/ EQVLQLVGDHKEGHGK/FLTIA QNPADPTLGAPVAQELGCAD EQGGFYPRSPDC
8598	38966	B	8655	97	235	
8599	38967	A	8656	1	2104	
8600	38968	A	8657	3	1107	FMTTDERKLFNHLKSPHLKYW VPFIWFGNLATKARNEGRIRDS VDLQSLMTEMNRYRSWCSLLF GYDWVGIPLVYTQVVTAVYT FFFACLIQRQFLDPTKGYAGHD LDLYIPIFTLLQFFFYAGWLKVA EQLINPFGEDDDDFETNWCIDR NLQVSLLAVDEMHMSLPKMK KDIYWDDSAARPPYTAAADY CIPSFLGSTVQMGLSGSDFPDEE WLWDYEKHGHRHSMIRRVKRF LSAHEHPSSPRRRSYRRQTSDDS MFLPRDDL/HSQGPTGCALKK PPQGLTHLE/DNPASQKEAPRCT SAWESCPPSGRPARQALYRA*P HSPV*ELPPSKCHGT*GIDHSSR STSAHIRGLPP*FRYLHLEL
8601	38969	A	8658	3	397	
8602	38970	A	8659	346	474	

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8603	38971	A	8660	1	1344	MHSTWLCFPARLLKELPFPQGL FPRLTIRASRTPPAALERVTRD PCAATCLDRGSLKGILGHSPFQ SPPVTSHCAENPNTLKAPPPYV GATSALVLSLGGPVPWLSVEL SIRTFASSGLIYYMAHQNQADY AVLQLHGGRLHFMFDLGKGRT KVSHPALSDGKWHTVKT DYV KRKGFITVDGRES PMVT VVG D GTMLDVEGLFYLGGLPSQYQA RKIGNITHSIPACIGDVTVNSKQ LDKDSPVSAFTVNRCYAVAQE GTYFDGSGYAALVKEGYKVQS DVNITLE\FRTSSQNGVLLGIST AKVDAIGLELVDGKVL FHVNN GAGRITAAYE PKTATVLC DGK WHTLQANKSKHRITLIVDGNA GWR*KSHTPQSTPVD TN NPIYV GG\YPAGVKQKCLRSQTSFRGC LRKLALFVRGPQVQSFDFSRAFE LHGVFLHSCPGTES
8604	38972	A	8661	3	92	
8605	38973	A	8662	2	158	HTFPTFSSSPHLVMMIQPSSSSP PPPLPPPPSS\PLPLPPSPPLLL FFL
8606	38974	A	8663	21	471	DGPQDQPPHQPS SSPPPPLPPP PFPPPLPLPPSPPLLLFFCSDEA LLCCHTGVELFFVIFAYCSG/PE TEPAISPRYASSSGLNGFPLPRT PPAYA*IPSSGIHFNPSLAIKPST TTTLVRTPTTHHHSRRPTITTQS STTAP SRLHP
8607	38975	A	8664	2	105	
8608	38976	A	8665	3	265	RKDLYANTVALSGGTTMYPGIA DRMQKEITALAPSTMKIKIAPP ERKYSVWIGGSILASLSTFQQM WISKQE\DESGPSIVHRKCF
8609	38977	A	8666	3	757	NTPAMYMAIQA VLSLYTSGRT TGIAMDSGDGVAHTVPIYEGYT LPHAILHLDLAGWDLTDYFMKI LMECSYRFTTMAEQEIVCDIKE KLCNIALDFEHKMATGASSSSL EKSYEVPDGGQVITIGNEWF/*VP EALFQPS/MGMESCGIQETTFNS IMKCDVDICKELYAKMVLSSGT TMYLGIADRMQKEITALGRPST LRFRFIAPP/ERRKYSV\WIGG\SI LASLSTFQQ\MW\ISKQE\YDES GPLHPSTANCF

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8610	38978	A	8667	3	171	CPLCRGNHWKVHCPSGR/MVP* VRSPQDDPTTGQRVPGASASS CHHPH*APGTFNH
8611	38979	A	8668	1	325	SPSRTCYYCGLQGHF*KDC/TSE KPPPRPCLLCQGNHWKVHCPR/ VTKVLWVRSPQDDPATGLRV PDD*EHTIRRAYALGKSAVTSK PPPPYPARSRLNVRRLCSLATN
8612	38980	A	8669	3	377	
8613	38981	A	8670	1	423	
8614	38982	A	8671	1	1659	
8615	38983	A	8672	1	1449	MVNDTDRPKVQVEYKGETKIF YPEEVSSMVLTKMKEIAEAYLG KTVTNNAVVTVPAYFNNSQHQ TKDAGTIAGLNLRIINEPSAAD IAYGLDKKVGAERNVFIFDLRG GTFDVSILIIQDGIFEVKSGDTHL GEEDFDNRIVSHFIAEFKHKYK KDITIRDVKLDKSQIHDIVSIGG YTHIPKIQKLLQDIFNRKELNKS INLDEAVAYGAAVQAAILSGD KSENVQDLLLLDVNPLSFGIEL AGGVMTV/LPVLIKHSTTIPTKQ TETF*QPIYSDNQPGVYECECAM TKDDNLLDKFELTGIPSAPHGV PQIEVTFDIDANGILNVSAVDKS VGKENTITTTNDKHRLSKEDM NIWSAEKYKAEDKRQRDKVSS KNSLESYAFHMKATVKDEKLQ GKINGEDKQKILDKFNEVIKWL DKNQAAKKEEFHQQTELEKV CNLIISKRYQSAGGMPGGMPGG FPGGGAPPSSGASSRPITEEVD

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8616	38984	A	8673	18	1388	TRLQLLGFLWLPSSLLEPGLHPS NHGPRGPAVGIDLGTTYSCVGV FQHGKVEIIAN\DQGNRTTPSY VAFTDTERLIGDAAKNQVAMN PTNTSF*LPNGLIGR\RFD\DAVV QSDMKHWPFMVVNDAGRPK APS*NTKGETKSL\YPEEGVFLW V*PKMK\EICRSLTLGKTVTNA\ VVTVPSTYFNDS\QRQATKDAG TIAGLNVLRR\INE\PTAAIA\YG LDKKGLEQKRNRHLLTWGG GTF\DVSLTIED\GIFE\VKSTAG DTHLG/GEEDFDNRMV\NHFAE FKRKHKKDISENKRAVRRLRTA CERAKRTLSSSTQASIEIDSLYE GIDFYTSITRARFEELNADLFRG TLDPVEKALRDAKLDKSQIHDI VLVGGSTRIPKIQKLLQDFENG KELNKSINPDEAVAYGA AVQA AILSGDKSENVQDLLLLDVTP SLGIETAGGVMTVLIKRNTTI
8617	38985	A	8674	2	1559	RYLNWIGTPTKGMSLKAFVQQ PHKSYWLKTLLPDNMEALQIR K*VPNILGTCAVSWLKGPCSDV AVKKFFIFSLGNYWEGN*LI*EH GYKVV*HSNSYLEPISPAQTPK KRTTSYFSTLLCLRLRSCLSFLK RIECYEVNYQPLDEELDR*EPAP QSQGLDLSPFDIL*DHIQSRTV YYLMNIHVTPRSIYLCRHGESE LNIRGRIGGDSGLSVRGKQVG WATHTQMGWLGCPRWAAGFP ILPSRPYPNAGVTLAAPVPTHDS VLPALPTRAGGQDETEPGLKAG PTGLPSAPPLEMGGGAPGKALS WMATPWCLPFCYVEVALTCAA PTVYQAVVWVLPPIHYLKCSPT AGQMRQCSLDMRPERGRDVSE GTRDHVRELREFNLWLIPPCQG LLPTSHMKRTIQTAELGVPE QWKALNEIDAVRCMG*ISCVW G*LESGIPLRDQDKYRYRYPK GEVRFAGWPNA*DYSVSSLQL NVLLICHQASMRCLLAYFLIKS SGTTLISALGMFDGI
8618	38986	C	8675	16	206	
8619	38987	A	8676	157	413	ALVCS/SSLAIREMQIKTTMRYH LTPVRMAIIKKSGNNRCWRGC GEIGTLLHCWLDCKLVQPLWK SVW*FLRNLELEIPFDPAIPLL
8620	38988	B	8677	877	2126	

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8621	38989	A	8678	1	1731	
8622	38990	A	8679	2	1675	
8623	38991	A	8680	1	2142	MIILIDAEKAFDKIQPFMLKTL NKLIGDGYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAQAIQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLARAIKQKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSQYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DIPKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLDPFLTPYT KIHSRWIKDLNVRPKTIKLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKK\TNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSSLVIREMQIKTTM
8624	38992	A	8681	1	1242	

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8625	38993	A	8682	14	1785	FDQVEERVSVIEDQMNMKRE EKFREKRVIRNEQSLQEIWYV KRLNLHLIGVPESDWENGTKLE NTLQDIIQENFPNLARQANIIQ EIQRMPQRYSSRRTTPRHILNA HKRK*ERYKIDTLTSQLELEK QEQTYSKASRRREITKIRAELEK IETQKTLQKINESRSCFEKINKID RLLARLIKKKREKNQTDVIKND KGDITTDPTETIQTIREYYKHLY TNKLENLEEMDKFLDTYTLPR NQEEVESLNRPIGTGEIEAIINSL PTKKSTGPDRTAEFYQRYKEE LVPFLLKLFQSIEKEGILLNSFY ASTILIPKAGRDTTKKENFRPISL MNIDAKILNKILANRIQQHIKKL IHYNQVSFIPGIQGWFNICKSIN VIQHINRTKDKNHTIISIDAEKA FDKIQPFMLKTLNKLIGDGT LKIMTAIYDKPTASTILNGQKLE AFPLKTGTRQGCPSPLLFNIVL EVLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQT LLKLISNFSKISGYKINVQKSQV FPYTNNRQTESQIMSELLFTIAS KRIKYVGIQLTRDVKDLFKEN
8626	38994	A	8683	1	5127	
8627	38995	B	8684	1	1461	
8628	38996	A	8685	2	1879	
8629	38997	A	8686	1	1299	MKLPEEGSGSIICCSAIFAVLQL PLVIHRQTGYGEDLQQTPTDLQ LRDLTDHSSSPAMEQSWMEND FDELNRSRLQKANKLENLEETD KFLDTYTLPRLNQEETESLNRPI TGSEIEAIINNVPTKKSPGPDGV TAKFYQRYKEELRTVNKNHMII SIDAEKAFDNIQPFMLKTLNK LGIDATYLKIIIRAIDDKPTANIIL NGQKLEAFPLKTGTRQGCPSP LLFNIVLEVLAIRAIRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIVSAQNLLKLINNFVSGYKI NVQKSQEFLYNNRQTENQIM SELPFTIASKRIKYLGIQLTRDV KDLFKENYNPLLNEIKKDTNK WKNIPCSWIGRINIMKMAILLK VIYRFNAIPIKLLMIFFTELEKVT TLKCI*NQKRAHIAKPILSQKNK
8630	38998	B	8687	1	2187	

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8631	38999	A	8688	1	1698	MMGDFNTPLSTLDRSMRQKVN KDIQELNSALHHMDLIDIYRTL HPKSTEYTFFSAPQRTYSKIDHI VGSKALLSKCKRTEIITNCLSDH SAIKLELRIKKLTQNHSTWKLN NWLLNDYWVHNEMKAEIKMF FETNEIKDTTYQNLWDTFKATL NQEEVESLNRPTGSEIQAMINS LGTKK/SPGPDGFTAKFY/PE*H DCISRKPHRLSPKSP*ADKQLQ QSLRIQNQCSKITSILIHQ*QTNR EPNHE*TPIHNCIKDNKIPRSPTY KGCEGPLQGELOTTAQRNKR HKQMEEHPMLMDRKNQYHEN GHTAQGNL*IQCHPHQATNDFL HRIGKKYSKVHMEPKSLHCQ VNPKEQSWRHHTT*LQTLQ GYSNQNSMVLVPKQRYRPMEH NRALRNNATYLPPLSDL*ET*QK QEMGKGFP*QMVLGKLASHM *KAETGSLPYTLTKN*FKMD*R LKC*T*NHKHPRRKPRQYHSGH RHGQGLHV*NTKSNGNKSQN* QMGSH*TKELLHSKRNYHQSE QATYRMGENFCNLLI*QRANIQ NLQRTQTNLQ/RKKQPHQQVG
8632	39000	A	8689	1	5073	
8633	39001	A	8690	128	1407	EKKASDDQTPSYRRKFKPKA KKLNTLKKI*TN/RITRITNREKC LKELMELKAKARELREECRSLR SQCDQLEERVSVMEIQTIRE YYKHLNENKLQNLNLEEMDKFLD TYTLRRLNQEEVESLNRPTGSE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELIPFLKLQFSIEKEGI LPNSFYEASIIIPKQGRDTTKK ENFRPIFLMNINAKILNKILANRI QQHIKKLIHHDQVGFIQPMQG WFNICKSRNVIHINRTKDKNH MIISIDAEKAFDKIQPFMLKTL NKLIDETYLKIIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNIVLEVLAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLFELISNFSKVS GYKINVQISQAFLYTNYRQSAKS
8634	39002	B	8691	1	1443	
8635	39003	A	8692	1	1878	
8636	39004	A	8693	1	1479	

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8637	39005	A	8694	1	2091	MVFLEKISVGISRLSKQHPPFIR VALPLDADPTVSRIGSFQWVLG LADFRNEAVDPRDVQMCPEFIP SGGFVVFLTSGVKPQTFTVSITA LKGEPTQMRRNQKTNNGNMTK LGYLTPQKNHTSSPAMSPNQE IPDSPEKEFRRTTEASLTEGGTI NPIISWAVGNGSSKNLYHILGK GRKIFSSSGIKQKSIASGERQNF QRNDQTAAFAVHENPLFCSHR CWYPGKQEKCLKELMELKAK ARELREECRLSRCDQLEERV SVMEDEMNMKREGKFKREKRI KRNEQSLQEIWVYVVRPTLHLI DVPETLNAHKRKQERSKTDLT SQLKELEKQEQTTHSKASRRQE TKIRAELEKTEKTLQKINESR SWFFERINKIDRPLARLIKKE KNQIDAINKDKGDTSDPTEIQT TIREYYKHLIYANKLENLEEMD KFLDTYTLPRLNQEEVESLNRPI TGSEIVAIHNSLPTKKSPGPDGST AEFYQRYKEELLISNFSKVS KINVQKSQAFLYTNNRQMESQ MSELPFTITSKRIKYLGIQLTRDI KDLFKENYKPLLNEIKEDRNKC KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLRMTFFTELEKTTL KFIWNQKRARITKSVLSQKNKA GGITLPDFKLYYKATVTKTAW YWYQNRDIDQWNRTEPSEITP
8638	39006	A	8695	1	3514	MELKTKARELREECRLSRCD QLEERVSAMEDEMNMKREG KFREKRIKRNEQSLQEIWVYV RPNLRLIGVPESDVENGTKLEN TLQDIIQENFPNLARQANIQIE QRTTPQRYSLRRATPRHIIVRFTK VEMKEKMLRAAREKDRSTRQK VNKDTQELNSALHQADLIDIYR TLHPKSTEYTTFSAPHHTYSKT DHIVGSKALLSKCKRTEIITNYL SDHSAIKLELRIKNLTKSRSTTW KLNNLLNDYW
8639	39007	A	8696	1	2091	

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8640	39008	A	8697	1	2781	MGKKQNRKTGNSKKQSASPPP KERSSSPATEQSWMENDFDEM REEGFRRSNYSELREDIQTGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRS RCDQLEERVSVMEDEMNMEN DGENGTKLENTLQDIIQENFPN LARQANVQIQEIQRTPQRYSSR RATPRHIIVRFTKVEMKEKMLR AAREKDFKPTKIKREKEGHYIM VKGSIIQQEELTILKIYAPNTGAP RFTKQVLSDLQRDL
8641	39009	A	8698	1	1584	MSISGTVRMSAKSKGNPSSSCP AEGPPAASKTKVKEQIKIIVEDL ELVLGDLKDVAKELKEQHWW HPISGDTATSICTVLESEKSKIK VTAFDVWLHLWGKGTDKQKD SSNFCRLKCPCLTALKRAVVLP ARSWRCENGQTASSGSLTPDP RAANREAPPSRGRLTPHTASDG ENGTKLENTLQDIIQENFPNLAR QANIQIQEIQRTPQRYSSRKATP RHIIVRLTKVEMKEKMLRAARE KEIQTAIREYYKHL YANKLENL EEMDKFLDAYTLPRQNQEEVE SLNRPITGPEIVAINSLPTKKSP GPDGFTAIFYQRYKEERHINRT KDENHMIISIDAEKAFNKIQQPF MLKTLNKLIGDGT YFKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QECPLSPLLFNIVLEV LARAIQ EKEIKGIQLGKEEVKLSLFVDY MIVHLENPIISAQNLLKLISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMSELPFTIASKRIKYLGIQ LTRDVKD LFEEND

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8642	39010	A	8699	1	1722	MAGYPSEMKLPEELSGSNICCS AVFTVLQPLLLIPRQTGSGVDL RQTPTDLQLRVLTVRRKNNKQ KRTSTPKPHLYVTIHKDQRSKKL TQNHSTTWKLNLLNDYWV NNEMKAEIKMFFETSENKGTIY QNLWDTFKA VCRGKFIALNAH KRKQERSKIDTLTSQLELEKQ EQTHSKASRRQEITKIRAEQKEI ETQKTLQKINESRSCFFEKINKI DRLLARRIKKKREKNQIDAIGN DKGDITADPTEIQSTIREYYKHL YTNKLENLEEMDKFLDTYTLPR LNQEEDESLNRPITGSEIEAIIINS LPAKKSPGPDRTAEFYQRYKE ELHINRTKDKNHMTISVDAENA FDKIQQPFMLKTLNKLVLVLA RAIRQEKEIKGIQLGKQEVKLSL FADDVIVYLENPIVSAQNLLKLI SNFSKVSGYKINVQKSQAFLYS NNRQTESQIMNELSFTIASKRIK YLG IQLTRDVKDLFKENYKPLL NEIKDDTNKWKNIPCSWVGRIN IVKMGI LPKVVYRFNAIPIKLPM TFFTELEK\TTLKFIWNQKRARI AMTILS*KNKAGGITLP
8643	39011	A	8700	3	1033	
8644	39012	A	8701	1	1068	ANKLENLEETDKFLDTYTLPR LNQEETESLNRPITGSEIEAIIINV PTKKSPGPDGVTAKFYQRYKEE LRTVNKNHMIISIDAEKAFDNIQ QPFMLKTLNKLIGDATYLKIIIRA IDDKPTANIILNGQKLEAFPLKT GTRQGCPLSPLLFNIVLEVLA AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLI NNFSKVSGYKINVQKSQEFLYN NNRQTENQIMSELPFTIASKRIK YLG IQLTRDVKDLFKENYNPLL NEIKKDTNKWKNIPCSWIGRINI MKMAILLKVIYRFNAIPIKLLMI FFTELEK\TTLKCI*NQKRAHIA KPILSQKNKAGSITLR
8645	39013	B	8702	69	1055	
8646	39014	B	8703	1	2301	
8647	39015	A	8704	1	3189	

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8648	39016	A	8705	92	1139	ASAADTQANRVWSGPPANSNR PAA\RVLTVRRKTNKQKGHPH QNPICSPSSKTKEIQTIREYYQ HLYTNKLENLEEMDKFFDTYT LPRLNQEEVESLNRPITGSEIEAI INNLP/TKKSPGPDGFTAKFYQS VGSSGQGNQAGEGNKGHSIRK RGSQIVPVC R*HDCISRKPHRLS PKSP*ADSQLQQSLRIQNQCAKI TSILIHQ*QTNREPNHE*TPIHNG FKQNKIPRNPA YKG CERPLQGE L*TTAQ*NKRGYKQMEEHSM L MGRKNQYHENGHTAQGNL*IQ CHPHQATKNFLHRIGKNYFKV HMEPKKGPHCQVNP KPKEQSW RHHTT*LQTLQGYSNQNSI
8649	39017	A	8706	1	2199	
8650	39018	A	8707	1	2238	
8651	39019	A	8708	3	1889	RSMRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTEYTFFSAPH HTYTKIDHILGSKALLRKCKRT EIITNYLSDHSAIKLELRIKNLTQ NRSTTWKLNLLNNDYWVHN KMKAEIKMFFETNENKDTTYQ NLWDAFKA/EIQT TIKEYYKHL YANKLENLEEMDKFLDTYTLP RLNQEEVESLNRPITGAEIVAIIN SLPTKKSPGPDGFTA E FYQRYK EELVPFLLKLFQSIEKQGILPNSF YEASTILIPKGRDTEKENFRPI SLMNIDAKILNKILAKRIQQHIK KLIHHDQVGFIPGMQGWFNH K SINVIQHINRAKDKNHMII SIDA EKAFDKIQRFMLKTLNKL GID GTYFKIIRAIYDKPTANIILNGQ KLEAIPLKAGTRQGCPLSPLL FN IVLEVLRVIRQEKEIKGIQLGK EEVKLSLFADDMIVYLENPIVT AQNLLKLISNFSKVS GYKINVQ KSQAFLYTNNRQTESQIMSELP FTIASKRIKYLGIQLTRDVKDLF KENYKPLLKEIKEDTNK WKNIP CSWVGRINIMKMAILPKVIYRF NAIPIKLPMTFFTELEKTK\FIWN QKSAHITKGILSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN

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8652	39020	A	8709	1	1779	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSNIDHIV GSKALFSKCKRTEIITNCLSDHS AIKLELRJKKLTQNHSTTWQLN NLLLNDYWVNNEMKAEIKMFF ETNENKDTTDDQNLWDTFKAVC RGKFMALNAHKRKQERSKMG TLTSQLKELEKQEQTHSKASRR QEITKIRAELEKEIET/QKTLQKIN ESRVEIQTTIREYHKHLYANKL ENLEEMDKFLDTYILPRLNQEE VESLNRPVGTGSEIEAIINSLPTKK SPGPYGFTAIFYQRYKEELHIN RTKDKNHMIISIDAEKAFDKIQ QPFMLKTLNKLGDGTYLKILR AIYDKPTANIILNGQKLEAFHLK TGTRQGCPLSPLLFNIVLEVLAR AIRQEKEIKGIQLGKEEVKWSL FADDMIVYLENPIVSTQNLFKLI SNFSKVSGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLG IQLTRDVKDLFKENYKPLL NEIKEDTNKWKNI PCSRAGRINI VKMAILPKVIYRFSAPIKLPM FFTELEKTK\FIWNQKRAHIAKS ILSQKHKAGGITLP

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8653	39021	A	8710	1	2093	MEITTNCLSEHSAITLQLRIKKL TQNCTTTWKLNYLLLNDYWV NNEMKEEIKMFFETNENKDDT YQNLWDVFKAVCRGKFIALSA HKRKQERSKTDLTLSQLKELEK QEQTHSKASRRQEITKIRAELE IETQKTLQEINDSRSSFSEKLNKI DRPLARLIKKKREKTQIDAIKN DKGEINTNPTEIQTIREYYKYL YANKVENLEMDTFLDTYTLP RLNQEEVESLNRPTGSEIEAIN SLPTKESPGPDGFTAIFY/HEGN QERERNKGYSIRKRGSHIVPVC R*HDCLFRKPHLLSSKSHEAVK QLQQSLRIQNQWAKITSMPVH Q*QTNREPHE*TPIHNCYKEN KIPRNPTYEGCEGPLQGELQTT AQQNKRGQKEMEKHSMMLMDR KNHYHENGHTAHGNL*IQCHP HQATNDLHHRIGKNYVNFHME PKKSLHCQENPKQREQSWRHH AT*LQTILQGYSNQNSMVLVPK QIHRTMEQNRGLRNNTHLQPS DL*QI*QKQEMGKQFPI**MVL GKLASYM*KAETGSLPYTLK N*FKMD*RLKC*T*NHKNPRRK PRQYHSGHRHGQGLHD*NTRS NGNKNQNRQMGSN*TKELLHG KRNHQAQTTYRMGENFCNL PI*QRANIQNLQRT*TNLQEKKN QPHQKVKGHEQTLLKRRHLC SQQTHEKMLITGHQRNANQN

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8654	39022	A	8711	3	1805	PLSTLDRSSRQKVNKDIQDVISA LHEAGLIDIYRTLHPKSTEYTF SAPHHTYYKIDHIVGSKALLSK CKRTEITTNCLSDDRAIKLELRJ KKLTQNYTTTWKLNNLLSDY WVNNEMKAEIKMFFETNENKD TMYQNLWDTFKAVCRGKFI NAYKRKQERSKIHTLTSQLKEP EKQEQTTHSKASRRQEITKIRAE KEIDTQKTLQKISVSRWFSE NKIDRLIARLMKKKREKNQIDA IKNDKGDITIDPTEMQTTIREYY KNLYANKLENLEEMDKFLDTY ILPRLNQEEVELPNRPITGSE AIINSLP/TKKSPGPDEFTAKFYQ RYKEELQGVRQEKEREDTQLG KEEVKLLFAEDMIVYLENPIV SAQNLLKLNNFSKVSGYKINV QKSQAFLHTNNRQTESQIMSEC PLTIASKRIKYLGIQLTRDVKDL FKENYKPLLNKIKEDTNKWKN IPRSWLGRNNIVKMTILPKVIYR F/NTLNFIVNQERARIAKTILSK KNKAGGITLPDFKLYYKATVT KTARYWKQNIKKGSVWPISLK SEKRGHRTPLWKLCHNDVQG ELLKTIQFLFGSPLGHSSLDPSA
8655	39023	B	8712	1	1743	
8656	39024	B	8713	1	1260	

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8657	39025	A	8714	1	1842	VPPTTCGNYGSTIQDEIWMGTQ NQTISVSEEMMFQAEIASAQK MWNQHHITPSKVDHIVGSKAL FSKCKRTEIITNYLSDHSAIKLK LRIKKLTQNRSTTWKLNLLLN DYWVHNEMKAEIKIFFETNEN KDTTCQNLWDTFKAMCRGKFI TLNAHKRKQQRCKIDTLTSQLK ELEKQEQTTHSKASRRQEITKIRA ELKEIEAQKTLQKINESRSWIFE KINKTDRLLARIKKKKREMNI DAIKNDKGDITTNPTIEQTIRE YCKHLYANKLENLEEMDKFLN TYTLPRLNQEEIESLNRPTGSEI EAIINSLPTKKSPGPDGFTAEFY QRYKEEMIEKKAFDKSQQPFM LKTNLKLGIDGTFKIRRAIYDK PTANIILNGQKLEAFPLKTGTRQ GCPLSPLLFNIVLEVLAREIRQG KEIKHIQLGKEEVKFSLFADDVI AYLENPIVSAQNLLKLISNFSKV SGYKINVQKLQAFLYTNNRQTE SQIMSEFPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLNIKEDT NKWKNIPCSWIGRINIMKMAIL HKVIDRFSAIPFKL/PKD/FFTEL EKTTLKFIWNQKRPRISKILSK KNKAGGITLR

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8658	39026	A	8715	1	1593	MGKKQNRKTGNSKKQSTSPPP KERSSSPAMEQSWMENDFVEL REEGFRRSNYSELQEDIQTKGK EVENFEKNLEECMTRITNTEKC LKELMELKTKARELHEECRSLR SRCDQLEERVVSAMEDEMNEK REGKFREKRIKRNEQSLQEIWD YVKRPNLHLMGVPESDGENGS KLENTLQDIIQENFPNLARINKI DRPLARLIKKKREKNQIDTIKN DKGDITTNPTIEIQTIREYYKHL YANKLENLEEMDTFLDTYTLPR LNQEEVESLNRPTGAEIVAIINS LPTKKSPGPDGSIAEFYQRYKE E/PADKQLQQSLSIQNQCTKITSI LIHQQTNRPNHE*TPIHNCFK ENKIPRNPTYKGCEGLLPGELQ TTAQGNKRGYKQTEEHSMLM GRKNQYRENGHTAQGNF*IQC HPHQATNAFLHRIGKNYFKVH MEPKKSPHRQVNPKEQSWR HHTT*LQTLQGYSNQNSMVLV PKQGYRSMEQNRALRNNAAYL QLSDL*QT*EKHAMGK/EFPI**
8659	39027	A	8716	1	1578	MGDFNTTLSTLERSARQKVNK DIQELNSGLHQADLIDIYKTVKP KSTEYTFFSGPHRTYSKIDHIVG SKALLSKRKRTEIITNCLSDHSA IKLELRIKKLTQNRSTTWKLNN LFLNDYWVHNKMKAEIKMFFE TNENKDTTYQTLWDTFKAVCR GKFIALNAHKKRQERSKIDTLT SQLKELEKQEQTHSKVSRQEI TKIRAELEKETQKTLQKINESKI QTTIREYYKHL YANKLENLEE MDKFLDTYTLPRLNQEEVESLN RPITGSEIEAIINS LPTKKSPGPD GFTAIFYQRYKEARPISLMNID/ AKILNKILANGIQHDIKKLIHDD QVGFIQGMQGWFNIRKSINVIQ HVNRTDKNHMIISIDA EKA FD KIQQPFMLKTLNKLIDGMYLK IIRAMYDKPTANIILNGQRLEAF PLKTGTRQGCPLSPLLFNIVLEV LARAIGQEKEIKGIQLGKEEVK LSLSADDMIVYLEKPIISAQNL F KLISNFSKVS/GYKINVQKSQAF LYTNNRQTESQIM
8660	39028	B	8717	1	2982	

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8661	39029	A	8718	617	1155	SIAYQPKSPGPDGFTAIFYQRH KEELLISNFSK/VSGYKIDVQKS QAFLYTNNRQTESQILSEFPFTI ASKRVGYLGIQLTRDVKDLFKE NCKPLLNEIKKDTKKWKNIPCS WVGRINIMKMAILPKVIYRFNA IPIKLPMTFFTELEK\TTLRFIWN QKRDHIAKSILSQKNKAGSITLP
8662	39030	A	8719	1	1827	MGKKQSRKTGNFKKQRHLSFS KGIAVLHQQWNKAGQRLTFDE LREGFRPSNYSKLQKEIQTKGK EVENFEKNSDECITRITNTKKCL KELMELKAKARELREECRLRS RCDQLEERVSGMEDEANEMKR EGKFGEKRIKRNEQSLQEIWDY VKRPNLRLIGVPESDGENGTKL KNTLQDIIQENFPNLARQANIQI QEIQRTTPQRYSSRRATPRHIVR FTKVEGKNIKGSQRERAIEQTTI REYYKHLYSNKLENLEEMDKF LDTYTLPSLNQEEVESLNRTITG SEIVAIINSLPTKKSPGPDGFTAE FYQRYKEEVVPFLKLFSIEKE VILPNSFYEARIIIPKPGRDTTK KENFRPISLMNIDAKILNKILAN RIQQHIKKLIHHDQVGFI PGMAI RQEKERKGIQLGKEEVKLSLFA DDVIVYLENPIVSAQNLLKLISN FSKVSGYKINVQKSQAFLYTNN RQRESQIMSELPFTIASKRIKWL GIQLTRDVKDLIKENYKPLLNEI KEDINKWKNIPCSWVGRISIVK MAILPKVIYRFSAIPIKLPMTFFT ELEKTTFK\FLWNQKRARIKS ILSQKNK/AGGITLPDFKLYYKA

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8663	39031	A	8720	1	1551	MEKFLDTYTLPRLNQEELES LN RPITGSEIEAIINSLPTKKSPGPD GFRAKFYQRYNEELVPFLKIF QSIEKEGILPNSFYEASIIIPKPG RDTTKKDNFRPISLMNIAVKILN KILANQIQKHIKKFIHHDQVGFI PGMQGWFNIRKSINVIQHINRT KDKSHMIISIDEEKAFDKIHLPF MLKTLSKLGIDGMYLKIIRAIY DKPTANIILNGQKLEAFPLKTGT RQRCPLSPLLCNIVLEVLARAIR QEKEIKGIQLGKEEVKLSLFAD DMIVYLENPTVSAQNLLKLISN FSKVSGYKINVQKSQAFLYTNN RQTESQIMSELPFTIASKRIKYL GIQLTRDVKELFKENYKPLLNK IKEDTNKWKNIPSSWMGR\NIM KMAILPK/VTWMKLEIIVLSKLP QEQKTKHRMFSLTGVFIEGRAL QNKSETSQRHPGATHSLPEYTI PGSSPSNFYWFTLGLKKEEVTSG WKREKKKRKREGGKEGRKEG RKEGRKEGKKEGRKKGRKEVP
8664	39032	A	8721	1	1983	
8665	39033	A	8722	1	2436	
8666	39034	A	8723	1	3139	
8667	39035	B	8724	1	3558	
8668	39036	B	8725	1	2133	
8669	39037	A	8726	1	3051	MGDFNTALSTLDRSMRQKVNK DIQELNSALHQADLTDIYGTLH PKSTECTFFSAPHHTYSKIVHIV GSKALLSKWKRREIITNCLSDH SAIKLELRIKKLNQNCSTTWKL NNLLLNYYWTNK\KKREKNQI DA/IKNDKGDITTNPTIQTIRE YYKHLYANKLENLEEMDKFLD TYTLPRLNQEEVESLNRPTGSE IEAIINSLPTKKSPGPDGFTAIFY QRMNYISFKSTWKIKNAYSLA HSREL RDGGQ
8670	39038	A	8727	1	2706	
8671	39039	A	8728	1	2573	
8672	39040	B	8729	70	2029	
8673	39041	A	8730	81	385	
8674	39042	A	8731	301	515	SSWQAPAPVLGSSWASKK*MK KKYAAQQIEKQKSP*CKSIKCS LRSASYAQLLSFSLSSCLCFSTC HSTLAWYCL*SSWQAPAPVLG SSWASKKRSLLWKEPSRSLPSF SITAR*ACCCLCSSTEPQLLKA QYLLSHSRTRSFRLQ

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8675	39043	A	8732	2	4207	DTHRLKIKGWRKIYQANGKQK KAGVAILVSDKTEFKPTKIKRD KEGHYIMVKGSIQQEELTILNIY APNTGAPRFTKQVLRDLQRDL DSNTIITGDFNTPLSTLDRSMRQ KVNKDIQELNSALHQADLIDIY RTLHPKSTENTFFSAPHHTYSKI DHIVGSKALLSKCKRKEIITNCL SDHSAIKLELRIKKLPQNCSTIW KLNNLLNDYWVHNEMKAEIK MLFETNENKDTTYQNLWDTLK AVCRGKFIALNA
8676	39044	A	8733	1	2770	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VQNFENLEECITRITNTEKCLK ELMELKTKARELREECRLRSR CDQLEERVSAEDEMNEMKRE GKFREKRIKRNEQSLQEIWYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQI QEIQRTPQRYSSRRATPRHIVR FTKVEMKEKMLRAAREKEIQT TIREYYKHLANKL

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8677	39045	A	8734	3	2169	FKPTKIKREKEGHYIMVKGSIQ QEELTILKIYAPNTGAPRFTKQV LSDLQRDLDSHTLIMGDFNTPL STLDTSTRQKVKKDTQELNSAL HQADLIDIYRALHPKSTEYTFFS APHHTYSKIDHIVGSKALLSKC KRTEIITNYLSDHSAIKLELRKN LTQNHSTTWKLNLLLNDYWV HNEVKAEIKVFFETKENKDDTY QNLWDAFKAVCRGKFIALNAH KRKQERSKIDTLTSQLEKEKQ EQTHSKASRRQEITNIRAELEI ETQKTLQKINESRTEIQTTIREY YKHL YANKLENLEEMDKFLDT YTLPRLNQEEVESLNRPIGTSEI VAIINSLPTKKIPGPDGFTAIFY QRYKEELVPFLLKLFQSIEKEGI LPNSFYEASIIIPKPGRDTTKKE NFRPISLMNIDAKILNKILAKRI QQHIKKLIPHDQVGFIPGMQGW FNIRKSINVIQHINRAKDKNHMI ISIDAEKAFDKIQPFMLKTLNK LGIDGTYFKIIRAIYDKPTANIIL NGQKLEAFPLKTGTRQGCPLSP LLFNIVLEVLARAIRQEKEIKGI QLGKEEVKLSLFADDMIIYLEN PIVSAQNLLKLISNFSKVSGYKI NVQK\SQAFLYTNNRQTENQIM SELPFPIASKRIKYLGIQLTRDV KDLFKENYKPLLNEIKVEDTNK WKNIPCSWVGRINIVKMAILPK LIGNCSKISGYKINVQKSQAFLY
8678	39046	A	8735	1	5166	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELWEDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELHEECRSLRSR CDQLEERVSAEMEDMNEMKRE GKFREKRIKRNEQSLQEIWYDV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLAQANVQI QEIQRMPQRYSSRRATPRHIVR FTKVEMKEKMLRAARQKAPH HTYSKIDHIVGSKAL

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8679	39047	A	8736	1	4553	MGRKNRKLDSRQHSYTSPQSRS HEDPAAVLQALSSSGVVIIYQSL VAVQSPLAAPGCDGSRCEVRG LTVGSRYGWSRLAGCRDNEMV NACQSGWCYQNLTVLRGWKV LLEMPHHTYSKIDHILGSKAL LSKCKRTEIITNYLSDHSAMKR ELRIKNLTQNRSTTWKLNLL NDYWVHNEMKAEIKMFFETNE NKDDTTYQNLWDIFKAVCRGKFI ALNAHKRKQERSKTDLTSQL KELEKQEQTHSKASRRQEI
8680	39048	A	8737	1	2673	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDINRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTPWKLN NLLNDYWVHNEMKAEIKMFF ETNKNKDDTTYQNLWDAFKAV CRGKFIALNAYKRKQERSKIDT LTSQLKELEKQEQTHSKASRRQ EITKIRAELEIETQKTLOKINES RSWFFERINKIDRPLARLIKKKR EKNQIDTIKNDKGDITTDPTIEI TTIREYYKHLIYANKLENLEEM DTFLDTYTLPRLNQEEVESLNR PITGSEIVAIINSLPTKKSPGPDG FTAIFY/PESYL*QTHSQYHTEW AKTGSIPFENWHKTGMPSLTAP IQHSVGSQGQGNQAGEGNKGY SIRKRGSIQVPVCR*HDCLSRKP HRLSPKSP*ADKQLQQSLRIQN QCTKITSILIHQKQTNREPTHE* TPIHNCFKENKIPRNPTYKGCEG PLQGELQTTAQRNKRGHKQME EHSMLMGRKNQYRENGHT\SQ GNLQIQCHPHQATNDFLHRIGK NYFKVHMEPKKSPHRQVNPKP KEQSWRHHTT*LQTILOQGYSNQ NS\MVLVPKQRYRSMEQNRAL RNNAAYLHYSDEL*QT*EKQA WGKGIP\IYKMA\GKLAS\PM*
8681	39049	B	8738	1	2792	
8682	39050	B	8739	156	391	
8683	39051	B	8740	1	2824	

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8684	39052	A	8741	3	4167	PLSTLDRSTRQKVNKDIQELNS ALHQVDLIDIYRTLHPKSTEYTF FSVPHHNYSKIDHIVGSKALLS KCKRTEIITNCLSDYNAIKLELR TEKLTQNRSTTWKLNPLND YWVHKEMKAEIKMFFETNENK DTTYQNLWDAFKA VCRGKFIA LNAHKRKQERSKIDTLTSQKE LEKQEQTHSKATRRQEITKTRA ELKKIETQKTLQKINESRSWFFE KTNKIDRLLATLIKKKREKNQI GARKNDEGAITTN
8685	39053	A	8742	1	1107	MKVEIKTFFETNENKDTTYQNL WDTFKA VCRGKFIALNAHKRK QERSKIDTLTSQKELEKQEQT HSKASRRQIQTIGEYKHLTY NKLENLEEMDKFLDTYTLPLRN QEEGESLKRPMAGSEIEAIINSL PTKNSPGPDRTAEFYQRYKEE L/PDKQLQQSLRIQNQWEKITSI PIHQ*QTNREPHE*TPIHNCFK ENKIPRNPTYKGCEGPLQGELO TTAQRNKRGHKQMEEHSMMLM DRKNQYCENGHTAQEETAFACT HSRRESSRLGLLVANFRACHQE RFRRERSVPAGVHAEAHPCWE NRGREERHWEQHPGPETVLLQ AGGHVCDQGLHHGQPQVGQV PRGSRGHSGHFQLPSVQDRSWL
8686	39054	A	8743	1971	5654	RSPTAGRNTNYP SRDYKHL A\NKLEN\LEEMDKFLDTYTLPK T/ITQEEVESLNRPIG\SEIVAVI NSLPTKKSPGPDGFTAKFYQRY KEELHINRTKDKNHMIISIDAEK AFDKIQPPF\MLKTL\NELGID GT/YFFKIIIRAIYDKPTANIRLE WGQKLEAFPFEKLAQE QGMPL LLNPLQSNIVVGKFLA\RA\IRQ EKEIKGIQVEKQEVKLSLFADD MIICLENPI\VSAQNL\KLISNVS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8687	39055	A	8744	1	4901	MTGSNSHITILTLNINGLNSAIK RHRRASWIKSQDPSVCCIQETH LTCRDTHRLKIKGWRKIYQAN GKQKKAGVAILVSDKTDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTEYTFFLAPH HTYSKIDHIVGSKALLSKCKRT EIITNYLSDHSAIKLELRIKNLTQ SRSTTWKLNLL
8688	39056	A	8745	2	1887	SASVVPASGLRPSSTSLTSTRQP RFLGLLRSHPALVAVPGDWD DLAVCCIVAPSHVCRMVFMVD RTLGISLPGLLKREEDACWVEA NINGRVLAQCNIDELKKEMNM NFGDWHLFRSTVLEMRNAESH VVPEDPRFLSESSSGPAPHGEPA RRASHNELPHTELSSQTPYTLN FSFEELNTLGLDEGAPRHSNLS WQSQTRRTPSLSSLNSQDSSIEI SKLTDKVQAEYRDAYREYIAQ MSQLEGGPGSTTISGRSSPHSTY YMGQSSSGSIHSNLEQEKGKD SEPKPDDGRKSFLMKRGDVIDY SSSGVSTNDASPLDPITEEDEKS DQSGSKLLPGKKSSERS\LFQA SLK\LKGRGLRLSKLPSEEDC GAEESDNTPLLK\DDKDRKPEG KVERVPKSPEHSVEPIRTFIKAK EYLS\DALLDNKGNSSDSWSVD PRES\SPNHVSAQCKCADDLPD LKRHNLE\LEDDSHSGKRG\IPH SLSGLDPIHARMSICSEDKKSPS RIASLD*PSSPEENWP\ACQKA YNL\NRTPSTVTLNNSAPANR ANQNFDEMEGIRETSQVILRPSS SPNPTTIQENLKSMTHKRSQR SSYTRLSKESPELHAA\SSSESTG

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8689	39057	A	8746	1	385	EGNEAQTCSFWNTRRQLLASS DPSLSVSQRMDSWRSSHSWP QMPDPSGRAPVRPHLAKLEED VWPCPQFHQTKAASGPPFVTFQ PANCFPSVISFHLHCHTWSEQD RAYHPVYQMR**GSDVQLLEY EASAAGLIRSFSEFPEDGPELE EILTQLATADARFWKGPSEAPS GQ/ALRK/SVWPCPQFHQTCAA SGPPFVTFQPANCFPSVISFICT AIRGVSKTGLTILSTR*GNGSSE KSLV
8690	39058	A	8747	2	2015	QDFLDSQNLSAYNTRLFKEVD GEGKPYEYVRLASVLGSEPSLD SEVTSKLKSYEFRGSPFQVTRG DYAPILQKVVEQLEKAKAYAA N\SHQGQMLAAQYIESFTQGSIE AHKRGSRFWIQDKGPIVESYIG FIESYRDPFGSRGEFEGFVAVV NKAMSAKFERLVASAEQLLKE LPWPPTFEKDKFLTPDFTSLDV LTFAGSGIPAGINIPNYDDLARQT EGFK\NVFAGGIVLGCGLTPRK REK\TFLEEDDKDLIYLWKGPS FDVQVGLH/ESLLGHGSGKLFV QDEKGAFFNDQETRDPPQKRG EQIQSWNRTGETWDSKFSTIAS SYE\ECRAESVGLYLCLHPQVL EIFGFEGADAEDVIYVNWLM VRAGLLALEFYTPEAFNWRQA HMQARFVILRVLLEAGEGLVTI TPTTGSDGRPDARVRLDRSKIR SVGKPALERFLRRLQVLKSTG\ DVTEGRALYEGYSTVTDAPPE\ CFLTLR\DTVLLRKESRKL SVQP NTHLEGNE/VSDVQLLEYEASR AGLIRSFSEFPEDGPELEEIFTQ \LATADARFWKGPQ*GPHSGPS LRKIVVALPPKFHQTCAA\SGPS HSVCVFRGWGGGGAGAWTLV LAPQLEGW*HNPLPICQHVSSLP NCFPSVIL/SFICTA\IRGVSKTGL TILSTKMR\NGSSEKSLV
8691	39059	A	8748	1	519	
8692	39060	A	8749	786	864	
8693	39061	A	8750	1	468	

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8694	39062	A	8751	128	605	MTWGTVP L F H I F Q M R C C H W S C Q G I M R G W G L C S Q T L N C L L S K C * T C S R G G G Q I W S R K F R L V R V E * G \ * G N F K T P E L Q Q P G V P P G L P P P G S C F K C R K S G H W A K E C P Q P G I P P K P C P I C A G P H W K L D C P T R L A A T P R S P G T L A Q G S L T D S F P D I R G L A V E D
8695	39063	B	8752	1	615	
8696	39064	A	8753	1533	1767	P S P T C P A I Y S * K G G W S Q R H S Q G A C Y T C R K S G H W A K E C P Q P G I P P K P R P I C V G P H * K S D C S T H L A A N P R A P G T L A Q G S L
8697	39065	C	8754	84	329	
8698	39066	A	8755	911	1497	S Q R K A R D Q R R K R N K R A S S I A K H K E P K R P I L P S G K N S Q E G V A T H T K P L A Q G K V W L D P / N E T N E I P N A N F R Q Q I R K L I K D G L I L R H R K P V T V H S R A Q G W K S T L A R R K G R H L G I E S K K I D R H M Y H S L Y L K L K G N V F K H K R I L T E H S H K L K A D K A R K K P L A D Q A E A R G S K T K E A R K L R E E H L Q T K K E E I I K T L S Q E E K A K
8699	39067	A	8756	34	280	E V I H A A I G E K K G S Y / N A * * P W V E E Q L T R Q P L I H H Q P A S L H S V Y / R C R Y H S L Y L K V K G N V F K N K R I L M E H I H K L K A D K A R K K L L A
8700	39068	A	8757	1	692	A F L L Q E L C L K S S T G E L F P F A A V A A A L S M L R L Q K R L A S S V L C C G K K N I W L D P N E T N E I T N A N S R Q Q I R K L I K D G L I R K P V T V H S R L R C R K N T L A R \ * K G R H M G I G K R K V P A N A \ R M P \ E K V T W M R E N E G F C R R L A S E D T R E S \ K K I D R P H V V T A L Y L \ E V K G N V F K N K R I L M E H I H K L K A \ D K A R K K L \ A D \ Q A E A R R S K T K E A T K R R E E R L P / A R P R K R E I I * T L S K E E T K K
8701	39069	A	8758	46	131	
8702	39070	A	8759	5	447	P A T E L P G L P T R P G M L C I W R G A P D W P E G P P S S G E L S S I Q P T Q G L H N C F Q P D G A R P A A P G P V P G Q L G A L P W S C R P P A E P T L F M E S L V Q W P P G D G I R Q * C E D A A E L R E P G V Q R H Q G S P G * V R T L P P L R G P S Q V P A / G S S S S A S P R S I P G S R G

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8703	39071	A	8760	1	201	MPNIYTM EY YAAVKKDEFMSF VGTWMKLETIILSKLSQGGQKTK HRMFSLIGTRMKLETIILSKLLQ GQKNQTPYILTHRISFEDVRNY MPLAVIHSDESPILPLHEQQDAS ENGWIKDTERDADLEIYIVSGIG SFRWVLGLADFKSEAADPCGM KLQTFAVSVTALKGGASRVVH SSWWVCVLDFRSEAA YLSVT ALEGGASRV AHSSRFVVS LTSG VKLQTF TVNATAHKGSADPKS EQHQDLLQRAKKHTFHSMKGE PRRVVAAGWGGAIKADSNNLI LLFQTIEKYCPWFPDKGSVDLL DWDRVGTTL CQLMRDGVLLPI SVWTDWALIRVALLPFQSGDTL QLPQVNADVEPLPLPRCIGGITG PEGGDP PGPSFHYLVGVYYFLT CRSTWEQRKSPVALR**KLGP GSPPSGPVMPPMHRGKSGSSTS ALTCS
8704	39072	C	8761	42	179	
8705	39073	A	8762	11	1713	PKTLKMGGGTAGLVGMGFSTT G\RTPSAPGRPHPCRGA P/GSPG KAGLFLQR PRLGTGL*GSAPRG PG*MGCP\GTGRGSNSRH*RGPP RRPQAS*AAPFQGPLETWTPG *SQVPGAPSPCNFSYPHREVPP WGPVPPPAPHGSCGWALALPR RKRAAVFSSWAPGQAGQLLDA ASVGAAP*QDIPPCRGS SAPSPC SPHPPPGLES GPK\PGAASWAGP QTPFSGRAQQLCQEGPAGAGN TSGRSA*AASAGTCDGPRSGGR VRTYPGLP*CRWTPGSRSSAAS SHHCRMPSPGGHCTRLSMKRV GSAGGRQLQGRAPS*PARGT*Q RPRGGQSGLAAPLESRH*DGE *AFWRAETVRSSVQRRREFATG LSGPSS*PRWSTCSVP/ASSPGG GDVAGPQEGPRS FHC LPSCL*V RPSHPEGDA A\ P*GALHK*RMH EEGRPGPCGGWGLV/GSWE PV QCCRRNLARWGRAWNCLQFPE *PPGGPGLADSGFIQTARLNFQ GWASVSFSIKRPGRAILRPCPTS EFLLPESFVSGNCSSTERAMWP FWAPPRSAPGAENFPCASVPCK

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8706	39074	A	8763	1	409	LTHLTAQNVPNLFARNERVICL FDTEFGPMAQILVGATIVGSIET VWAGTITPPREGIIKRWTWPAG ENDGSVALLKGQEMGRFKLGS TVINLFAPGKVNLEQLESLSV TKIGQPLAVSM*SKATQLGNPR
8707	39075	A	8764	1	1528	MTFVNAQAEDSQIFLYKRRYVP VEGYAPWLVSNGASELERIHYE GMDDVILLDFLPKELGFDMMN HILSFAPGANHGYIEHTFKEHG GATQAFAKENNHKAYKDTYG VSHITRHDMLQIPKQQQYKEYQ DTHDTPYCEPLPGETRLWGDT DVIGLFAETDMNDVVAILENH PLLGAGFAHKIEQLEDKDWERE WMDNFHPMRFGERLWICPSWR DVPDENAVNVMLDPGLAFGTG TIQTLSPAMLDSSSTHTRRMRS TLNLYEITRMSTVSTSEHSMTY TLVQVDMKEAQKPDASYRTF NEFFVRPLRDEVRPIDTPNVL VMPADGVISQLGKIEEDKILQA KGHNYSLEALLAGNYLMADLF RNGTFVTTYLSRPDYHRVHMP CNGILREMIYVPGDLFSVNHLT AQNVNPNLFARNERVICLSDFEF GPMAQILVGATNGGSIETPESE GATVDESFFVGGPVGDFELLIC QERSALSGRCVI*SFNSAKVRFI QQSRP VKSA
8708	39076	A	8765	2	420	QNFKEIFVRPLRDE/VRPIDNDP NVLVMPADGVISQLGKIEEDKI VSNLFARDERVICLFDTEFWPN AQ/ILVGATIVCSIETVWAGT/IT PPREGIIKRWTW/QAIEEDSWQ NLGRVAG*NKLPTELCNNFDW AQTLSRNRG

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8709	39077	A	8766	1	1130	MHFAKKEDVSEIETGSDGEKPK ARAGCLIGNSERLFSVTFCVQF QATLPLSYTIMKHKDTGTSSVP ESIDASLEASQQNPAFLKTLTRS CSPSWPCSRNWPHELLIPTCPA QAGATPQLPGLGPPGHLPMNQ PASSFPPRPNAASQILTSTFHKP PPGSSLACCCCPGPCDWQEDSQ *PTPACPSWPPWPTQLSPSAAGS PINHSPIQGFHSQLLS*RSPGTEE P*EANKLPPWTGHREPEPHGL PGHPCAAG/MHRPLAPTTA\IRPL ATLHGERQRHLHPGQRRRVPR APAESTEAPALWLHRPPECPEC SGHGPAALEQGAGMA*CRSCR HLPCFPGEADAGSREGPHQEV PRSKICQQPQAASFRICLHSIF
8710	39078	A	8768	179	1908	KKQNKSRGCNVNWAMRRALK MCIPYRNGHSIFLVMVKVERSK RFALKLSVAEKNQMPRNATVIE NSAGYSYGKMAFS*PRICTQIV GPRIISTTAVIS/SQPATHHRATR GAIIRTAFCGPCFGAGDTPINNG LSIRHTTRNFPNREGSKPANGQ MSAVALMDARSIAATAANGGY LTSASELDCWDNVPEYAFDVTP YKNRVYQGFVKGATQQPLIYG PNIKDWPELGALTDNIVLKVCS KILDEVTTTDELIPSETSSYRS NPIGLAEFTLSRRDPGYVSRSK ATAELENQRLAGNVSELTEVFA RIKQIAGQEHIDPLHRVYRHCS RSGNCPSDVFDSSKKDPVQDHRP QKRVTLIWGYDIHPQIEIIQTGD NFFQFRAIANNFGFLRFYQIRHF GLSGQHGVQIFTADVERGVGL RLQRFPPVVKHAIVQRQVEVIAV AHIEVQADIFTRSFRAIEANGHK VEQHFDHRHPANGVRGTGGAVA ELMHPFAQLFRAGQVETAPCG GLGLIAQLFKVIRLQILRGESKK FSANLTALKLPLPMVYEGDKV LKHLLRPKFNLPPLVQPPKKML
8711	39079	B	8769	1	1881	
8712	39080	A	8770	2093	2287	

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8713	39081	A	8771	1	1358	MKINLKLTDNSKVADGQFANI VVFLINWFYIHATTCEIDNGGVI VADGFQASKAYSADSIVDYND AHYKTSVDQDAWGFVPGGDN PWKKYEPAKAWSASTVYVKG DRVVVDGQAYEALFWTQSDNP ALVANQNATGSNSRPWKPLGK AQSYSNEELNNAPQFNPETLYA SDTLIRFNGVNYISQSKVQKVSP SDSNPWRVFVDWTGTERVGT PKKAWPKHVYAPYVDFTLNNH HRRTDSFRSKATAELENQRLAG NVSELTEVFARIKQIAGQEHDIP LQTEIGSMVYAVKPGDGSARE QAASCQRVIGGLANIAEEYATK RYRSNVINWGMLPLQMAEVPT FEVGDIYIPGIKAALDNP GTT FKGYVIHEDAPVTEITLYMESL TAEEREIIKAGRIRHLLSDAMLA HLIRPTNRIESVGQIRHFRSIRHL LSDAMLAHLIRPTNRIEP
8714	39082	B	8772	21	1623	
8715	39083	B	8773	32	1850	
8716	39084	A	8774	1	1193	MSEVEAAAGATAVPAATVPAT AAGVVAVVVPVPAGEPQKGGG AGGGGGAASGPAAGTPSAPGS RTPGNPATAVSGTPAPPARSQA DKPVLATRVLPGTAKRFNVRS GYGFTNRNDAKEDVFVHWT VKRNNPRKFLRSVRDGETVEFD VVEGEKGAQATNVTGPRAAGV PMKGSRYAPNRRRFR*FIPRPPS VAPPPMVAEIPSAGTGPGSKGE RAEDSGQRPRRWCPPFFYRRR FVRGPRPPNQQQPIELTGAFACS QGTDRVEPKETAPLEGHQQQG DERVPPPRFRPRYRRPFRPRRQ QPTTEGGDGETKPSQGPADGSR PEPQRPRNRPFQRRRQQAPGP QQAPGPRQPAPEEAPTEAIKP MIAHDGHAPPNPSPTCCLEPSY QLVDVN

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8717	39085	A	8775	3	933	RHQESLCAPLEILQKKGCPCLE EPLQRQPCPCQSSEVTA**NISF RFASPGGN/SPWASH*APSVRG AAPAGPVGLEAAAGSEPHPGP/ PDAGGARPVPGGAGSRPRMVL/ SPRSAPHLGGGRSA/PAMRTGN PCTHTQVVTTSPNLPNIP*GAKS HPI/VERPLS*KGTGPSAPQIATE NIYP*QLHGKGPLIRD*KIVPHD GAAGQSPLLPVRSCQRGYLP SAK*FFDALIKIKFTLKLHLRRFSC TSLRGLLVSPLLLPVRLLLAG WAHAWMHGCGGWEPRITQQR ASCQLPDRTKSKMRVKIPAANS SWLCH
8718	39086	A	8776	3	925	RGSEQIPPSSIPGAP*KMLFSPG/ SSEPEHL*TVPASSLGCRPGGPV ASRSRPPRPPARAALRGPPASSP IRFP\GASPRAPPTS*MRSGAGS KT/TPRPGPSASGDRPRAPCVRG PGCGSEPA AASSPTGPAGVPRA R*GPGHGQTSPHGW*PSSMQQ RTRRCSPSSVPGQFLLP/LSCS QVSPWTW*GLPYSLIPVSSLLP WPEDRVPSFVA/GPLPSFDNTS LPVEGGS*L/HPVCLLYVYQENS SKHIPYSCRGSRIFFSQRQVRM AGQRKLC DHPGGLISKPLAWT RIPEAPVVAAMVEGGGGL
8719	39087	A	8777	144	503	
8720	39088	A	8778	15	427	
8721	39089	A	8779	1	1055	
8722	39090	A	8780	280	1480	FQTRMGISVATIPGTSCSWMR ASEKEKDTFESTVQVSKLQDLI HRSKMARCRGRFVCPVILFKGK HICRSATLAGWGELYGR\QATT YFFSGGADDAWADVEDVTEED CALRSGDTHLFDKVRGYDIKLL RYLSVKYICDLMVENKKVKFG MNVTSSEKVDKAQRYADFTLL SIPYPGCEFFKEYKDRDYMAEG LIFNWKQDYVDAPLSIPDFLTH SLNIDWSQYQCWDLVQQQTQNY LKLLLSLVNSDGGTDSKSLVAI RTSVGVALAQTSIGNALAYGTK KAQEQSQDGLIHTSLKPTEILYL TVAYDWFLFGHMLVDRLSKGE EIFFFCFNFLKHITSEEFSAKKTQ RRKSLPARDGGFTLEDIC*DE RTVAVPPDLVCDCLPGHGEFPR

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8723	39091	A	8781	2	588	HSFFFPNREKCKSTKR*RLSASRF PP*PWSRLPSG/QPAGGASAGSP SAPRGTGRGAGSRPAHG/VQPP RAHPEAPCPACPRSVGGAR/RA PEPSSNLSGEAPASGDRDVPPPS PLAR*VPLGGREFGWPWANAA LRPGKTP/RSDRVSRSPWS/PAG FSVPASWPRRSTSGNRGPPSRPS RLSRTSGPLNRLGEPFDVQGGL
8724	39092	A	8782	1	198	
8725	39093	A	8783	1	275	MAGAPAPASLPPCSLISDCCAS NQRDMSGVGPSEPGAGYNLVP VEKRSIRVGVGTGFSRCCPSPLSL TRKGNSLTPWASQVRQCLALL QLAH
8726	39094	A	8784	349	478	KLSKFPYTEELSSGLYGIGSLCP HKYNCLVSSHRCN*VTGY
8727	39095	A	8785	1	325	FSEGNLYLVGIMHPLKAMPLGL QYQTETFPFPGYLM/PCRLQQQ SHLLTLRDCCASNQRDSVGVGP SEPGAGYNLVVRRFLSLLEKRSI WVRVTRFSSALNHELVNDH
8728	39096	A	8786	113	313	
8729	39097	A	8787	2	1991	
8730	39098	A	8788	512	1178	
8731	39099	A	8789	135	1562	DTLVPTSQGDISRGLEGNLNSC PT*Q**RAPFLWCQ/PKAEWGT WIFNPEAEESLEPRSLISDCCAN NQRDMSGVGPSEPGAGYNLVV RSFLSPSEKRSVRVGVTRLSCRCR PSPLSLTQKGNPLTPCASQVRQ CLALLRLRHVYFYFNGWKDYG VASLTTILDMVKVMTFALQEG KVAIHCHAGLGRGTGVLIACYLV FATRMADQAIIFVRAKRPNSIQ TRGQLLCEAQQSGAFSADVSGS HSPGEPVSPSFANVHKDPNPAH QQVSHCQCKTHGVGSPGSVRQ NSRTPRSPLDCGSSPKAQFLVE HETQDSKDLSEAASHALQSEL SAEARRILAAKALANLNESEK EELKRKVEMWQKELNSRDGA WERICGERDPFILCSLMWSWVE QLKEPVITKEDVDMLVDRRAD AAEALFLEKGGHQHTILCVLHC IVNLQTIPVDVEEAFLAHAIKAF TKISIIIFVNQNPEVTVLL
8732	39100	B	8790	563	2017	
8733	39101	A	8791	108	194	
8734	39102	A	8792	1	164	

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8735	39103	A	8793	1	1068	MEESRYWGTGRNRREGLKLQ WAQPAPLFNIRQGPNEGDNQQ GSYWEALASIMQIIHLVPSGLG MVTAFHCSWYLSTTATFPGVL NPALTEIKSGNYVVHGSFILQV ADYKEFQTLLMITKATFHQKTQ CWACEEGVQQSFHPCPRMQAA ASVERYTELLKEFLFKEHTCDN QEPTSTLHYHSLKLTVHIHVYSS RCTLPCQPSQAAQAEGISQPAP ACEDFVFAALAPP/ESG/RCPTL RLLGGLCTPTNARRTRTHSTTA CWARAQWDSLGLPLKLSHRPR VCGGTRAPGRQGCMMGNQRLGT SNSEARDPGGLRVKHR/CEAIQ EPPNRSRRQGAPLHSPPAY*MS SWRP*SFSKRHNLS
8736	39104	C	8794	78	331	
8737	39105	A	8795	129	1734	QWMHRMLDIFKGSSQHPSVPR VSSRPPLGPQGYSLHHFGTQGI HSATPINTQGLQPAPMGTTQQPQ PEGKTSVVVLADGATIVANPIS NPFSAAPAATTVVQTHSQSAST NAPAQGSSPRPSILRKKPATDG MAVRKTLIPPQPHDVASPRVES SMRSTSGSPRPAGAKPKSE\STC LWPLRSLCPWRLYPKIMISLPL PSLKLPSPPHRPFQL*LQQPVPR HNQPLPFQPFLESPSLHPSPLA HCTTSISHCGWQSFLRLGPSRS* N*SERRSRTNGYHEASF\VPPL ATNTVSPSLALLANNLSMPTSD LPPGASPRKKPRINNSMWISTEE GDMMETNSTDDEKSTAKSLLV KAEKRKSPKEYIDEEGVRYVP VRPRPPITLLRHYRNPWKAAYH HFQRYSDVRVKEEKKAMLQEI ANQKGVSCRAQGKWVHLCAA QLLQLTNLEHDVYERLTNLQE GIIPKKKAATDDDLHRINELIQG NMQRCKLVMDQISEARDSMLK VLDHKDRVLKLLNKNGTVKKV SKLKRKEKV
8738	39106	A	8796	1	169	RPTRPPKSNKRQCLVFVTP\KEE EPVRNILEKFNTISGSKVRSLYL HAPLLPLER
8739	39107	B	8797	156	398	

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8740	39108	A	8798	20	723	VWGGFELPRIWFMLPTSHQWM LFSVFLGWGSCQWSCSHLLSCL WRAAFSEFPLGPEPGEGIGPELC LCFQMEAIELSVDPKSNKRQCL VFVTP\KEEEPVRNILEKFNTISG SK/CTEVQRGVIYPGHIR*R**SI PRGF*FYK*GRPDSAGGHGPG GVLQGEKGHSACARQGGRFQE GAAFAQRETAGRRVGQRWCG DCFRTPVHRKSLSSPNFGGFGA GSEAVPCHLVLYLVW
8741	39109	A	8799	79	256	LRLTLFFQNLGGKSSMLWTA HPCPEGACSSSCTSLGSHLLSS FPVLGR*PGPSGDH
8742	39110	A	8800	402	996	TFFKFPPDSGAQLASPRGSRIGA AGGAA\SSPEPSAALLSPWVVD GTGRPGAGGGARRGGSGCTGA HGGGGSSGM/VG/PAGPEPCPA GRQLRPGEKSSAAPLREPASAL AGPERGSHSAAAG*RAPQ\GRQ SGSPGRGGAESERGL*GLPSCC HLSPGSGAAA\PRSVGSRWPC GA\PTLATPPTSASFSAATPEGP PLAS
8743	39111	A	8801	7	602	TFFKFPPDSGAQLASPRGSRIGA AGGAA\SSPEPSAALLSPWVVD GTGRPGAGGGARRGGSGCTGA HGGGGSSGM/VG/PAGPEPCPA GRQLRPGEKSSAAPLREPASAL AGPERGSHSAAAG*RAPQ\GRQ SGSPGRGGAESERGL*GLPSCC HLSPGSGAAA\PRSVGSRWPC GA\PTLATPPTSASFSAATPEGP PLAS
8744	39112	A	8802	262	349	KEGEGGK\PD*PVRMCPPKPSG HWKHPGE
8745	39113	A	8803	2271	2863	GGASGVVRSSWWARGLAGFRS EAADLRGLPVELRASPAPCVRT PQPLGGR\GIGRPGAEGGPCWG GSGRTGAHGGAEAGSSLGQP RKGLPQCSGG/PEGLLKCGQSG SPGRGRAQSERGL*GLPACCHL SH*PQGRQI*PRTCPTPFQSKTS DQGGPSGPAVSGSERQV*LHHQ *PGCRDYLCGPFCSWEINPVWG

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8746	39114	A	8804	3	561	NCPSLLVESCQECGSSIPFALPS TQVEHALYASER*QRAGSPHSP HLSVPPLPGLPLWRHLRSPS/G PPLH*PP*ASTLTGGPQ*RLGSA GINVSSEPVSRRPNV*SFPFPQY TVTLVKGWRSREPSKSSVLGS/ MVP*STKSEP*REPP*SLTGKA GERGEKGREKAIGSGR*GVAKC SDHVR
8747	39115	B	8805	298	380	
8748	39116	B	8806	1	1292	
8749	39117	A	8807	1	1224	MKPRTLAVSVTALKVARLEFV PSDVRMCSEFLPSGGLVVSLAS GVKLQTFAVSVTARNVDPKN SGAQLASPSGSSTRAASGAAC* SPSPPPCARTPQPLGGR\GTGCP GAGGGTRRGSGRTGAHGAAE GVGSLGQPRKGPPTVQWWAE GLLKCRQSGSPGRGGAESKRGL *GLPASTLSP\PPG\ECAGKSENS HMNLNCSGSLGPGTGAHLPL GPDSGQPAETLLWGPCCGPGG TGLTSGQTISLGCQGGQPRRE VKPPVPQRVSVLLVAVNPPDS RCRVETDRPWRLCIQSCLCGTL KRDVLHSPSVVFNTTRGGTAE WSREDKDALLPEYALHMPFAV GFKLEYKEGVLSNLAAGPEK ELCEAKRNQCPKSGVSHTSRPL KPEWSDFVAEIDESKL PDRS
8750	39118	A	8808	1	1298	ESLRAGSFQEIQPELAPLIILRG FGTWPGWSFQATGFCVGVGRS PGSGFRGCGAYRAP*SFRTQLW PWQPLQGLDPKPLKDALRPSPL GRRACAEHHLCSADERPD LGFE GLQRWGGCRGSQGKPAVHQA WGRCGEGTGGGHTGSPPRLT P/PGPGSFRAQPGERRPAACGQ QRALGPMRPPAC/GPSPT*GCA LNPTSPAPLV*GFIHIVAAFCF VTPVSKSHSFQLGGELRVAGSD \GGRWGERENTQGSLPPSSPAS SPGSPSPDPATPPGPATPGLIDIL LLLPMVASSRKHDFS GFSGRLP PQGEFFQ*GPTGWQSWVWPLD PSYLGGCQGGCGQGPRTGRRG ASSHCCVPAAP/GLSMDCSRGS GGSPPRSPPWALLGDLPSSLET VCLVMMFPCPIWMASEFAMEI QLLGPFWQIMLIGLCW

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8751	39119	A	8809	2	662	RIPLLVTRLKINEKVLQVLTNIF LFHDFSVQNFIFKGLQLSLEHFY SQPLSVLCCNLPEAKRRINFLSN NQCENIRRLPSFRRYVEKQASE KQVALLTNERYLKEETQLLEN LHVYHMNYFLVLRCLHKFTSS LPKYPLGRQIRELYCTCLEKNI WDSEYASVLQLLRMLAKDEL MTILEKCFKGFKSYCENHLGST A*RIEEFLGQFQSLDEPRGRR
8752	39120	A	8810	326	1215	NPILHGNFIFMLDHSKLVQDQ E*TLM*/HYGPQVVTMCQCSFIE RNKRIPVVQGIRRGHGHVQWG RYVEKQASEKQVALLTSECL KKETQLLENLHVYHMNYFLV LRCVHKFTSSLPKYPLGRQIREL YRTCLEKNIRNSEEYASVLQLL KMLAKDELMTILEKCFEVFKSS CEKHLGSTAKRIQEFLAQFSF DETKENEALKREEGCIPNITPDI CIAKLYLECRRLINLVDYSQA FATILTAAEKMDANSTSSSEEMN EIIYAWCIRTVFELLELGFIPKTK QKTDHVARLT
8753	39121	A	8811	70	613	SLLEMKELRRSKQTKFEVLRE NVVNFIDCLVREYLLPETQPL HEVVYFSAHALREHLNAAPRI ALHTALNNPYYLKNALKSE EGCIPNIA\PDICIAKYLHLECSR LINLVDWSEAFATVVTAEEKM DANSASSEEMNEIHHARDIRAVS ELELLGFIPKTKQKTDHVARLT WGGC
8754	39122	C	8812	598	762	
8755	39123	C	8813	138	296	
8756	39124	A	8814	1	395	

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8757	39125	A	8815	2	1289	DDLCAAFKVLHDKQRGPTGF YAPFNSRPL*KPQLAHSIILMET ATERJSRLLLPFADQHVEIPSLT AGNIALTVGLKHTATGDTIVSS KSSALQLVEPNGREKRSTDK TMKAERLLLAGSGRFQEPVFFC TIGTPITV*GSQIWEHAFEMSFS VRIPVLKVRDPDSGQTVLCCG MGELHIEIHDRIKREYGLETYL GPLQVAYRETILNSVRATDTLG *EL*GDKRHLVDLLGSGKARPI ETSSVMPVIEFEYAESINEGLLK VSQEIENGHSACLQGPLLGSP IQDVGNYLYIP*QIHPWAPSTTY DFCLCLKMPCKKALERKADKQ VLEPLMNLEVTVARDYLSPL ADLAQRRGNIQEIQTRQDNKV VIGFVPLAEIMGYSTVLRTLTS SATFALELSTYQAMNPQDQNT
8758	39126	A	8816	545	849	LAIHLSSLISRHDDEATRSTSE GLEEGEVEGETLLIVESVEDQAF S/VDLSDQSGGISLNSDEGDVS WMEEQLSYFCDKCKQWIPASK ELLNSFDLSIPV

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8759	39127	A	8817	1	2395	MDSSIHLSSLISRHDDEATRST SEGLEEGEVEGETLLIVESDQA SVDLSHDQSGDSLNSDEGDVS WMEEQLSYFCDKCQKWIPASQ LREQSYLKGDNFFRFTCSDCS ADGKEQYERLKLTHQVVML ALYNLSLKSGRQGYFRWKED ICAFIEKH*TFLLRNRKKTSTCR STGAGCLSVGSPMYFR*GA*EF GEPRWWKLVHNLPLTMKPERE KTAATLNIFAASKPTLDPIITVE GLRKRASRNVPVESAMELKEKR SRTQEAKDIRRAQKEAAGFLDR STSSTPVKFISRGRRPDVILEKG EVIDFSSLSSSDRTPLTSPSPSPS LDFSAPGTPASHSATPSLLSEAD LIPDVMPPQALFHDDDEMEGD GVIDPGMEYVPPAGSVASGPV VGGRKKVRGPEQIKQEVESEEE KPDRMDIDSED TDSNTSLQTRA REKRKPQLEKDTKPKEPRYTPV SIYEEKLLLKRLEACPGAVAMT PEARRLKR\KLIVRQA\KRDRGL PLFDLDQ\VVNAALLLVLDGIYG AKEGGISRLPAGQATYRTTCQD FRILDRYQTS\PSRKGFR\HQ\T TKFLYRLVGSEDMAVDQSI VSP YTSRILKPYIRSDPHWTPEPDAP LDYCYVRPNHIPTINSMCQEFF WPGIDL\SECLQYPDFSVV VLY KKVIIAFGFMVPADV\KYNEAYI SFLFVHPNWRRAGIATFMIYHL
8760	39128	A	8818	3	364	GDSVPTAEGGDQVCVILSSVPQ TVWEPMFNKRACG/P*SP*SLSA TSIYPRELKAGTQKDTCP PVFR AVLFTTATQCPSTDAWMNKM WYSRTMECYSALKRKEIPPHAT ARHPMCLQFCRW
8761	39129	A	8819	292	508	ARPGDQATSGGQGTTFQHPLFC FELGGSQNPALQ*PFAAACPVG AD*TKFTFAFCRLK*KRTCCL SLGSR
8762	39130	C	8820	253	369	
8763	39131	A	8821	295	393	IYFGCLLGEPVVAEEAGI\WDN DCVKKQLLHSW
8764	39132	B	8822	91	479	

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8765	39133	A	8823	1	544	ARHPDMKKRVEDASILPCNVSL EYEKTEVNSGFFSKSAEEREKL VKAERKFIEDRVKKIHELKRKV CGDSKGFVVINQKIDPFSLD ALSKEGIVALRRAKRRNMERLT LACGGVALNSFDDLSPDCLGH AGLVYEYTSAPCPKQSGLCILSS TLGEEKFTFIEKCNNPRSVTLII KGPKNKHTLTQIKDAVRDGLRA VKNAIDGCVVPGWCWCRGKW AMAEALI*P*APVLKGRAQLGS PKHLLDAFAHYFPKVLCFRNSG FLTQGNIKLKFKAEHSRIQVQL VGVDLNTGEPIMVASRSKAVW GHT* <u>LW</u> *KKTSLPSTPCTW*IA\ TNILLGLNEIMRAGMSFS*KGF VVINQKIDPFSLDALSKEGIVA LRRAKRRNMERLTACGGVAL NSFDDLSPDCLGHAGLVYEYTS PACPKQSGLCILSSSTLGEEKFTFI EKCNNPRSCHIIDQRTK
8766	39134	C	8824	636	1025	
8767	39135	A	8825	33	1505	KCISASVKVDFSDLLSNNTS*S AFTPTRTQKSSSKLLRKESHYS GMMSIQEKSKENSSKVTKKSD DKNSETEIQDSQKNLAKKSGPK ETIKSQAKSSSESKINQPELETR MSTRSSKAASNDKATKSINKNT VTVRGYSQESTKKKLSQKKLV HENPKANEQLNRRSQRLQQLT EVSRRSLRSREIQGQVQAVKQS LPPTKKEQCSSTQSKSNKTSQK HVKRKVLEVKSDSKED/GKSSN **SNKFS/SKGKNAR*NIR/SACA CSSQCTQGSEKCPQKTTRRDET KPVPTSEVKRSMATSVVPK KNEMKKS VHTQVNT/KHNTPK KSTAISA*TK***AGASRKEQTR *YSPA'REEIIAGEIESDNVEVKK ESSQMESVKEEKPEIKLEETSV ERQILHQKGTNQDVQCNRFFPS RKT KPVK CILNGINSSAKKNSN WTKIKLSKFNSVQHNLDSQVS PKLGLFTNQFFTTFRNASSSDS KYIFRDKAT
8768	39136	A	8826	1	394	AISRALGRYVLPCLIQDGIFVA HTAHAILTSLED\SL*MFQPKTC WCL\AN*HDTLSVNMETPHPSF QEELSGLLLLKMLRSPIEASKD KDKVKSNAVRALGNLLHFLQP SHIE*PTFAQINEEAIQALIS

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8769	39137	A	8827	52	730	KSACDALSSILPEAFRNLPNDR QMLCITVLLGLNDSKNRLVKA ATSRALGVYVLPCLRQDVIFV ADAANAMVMSLEDKSLNVRA KAAWSLGNLTDTLIVNMETPD PSFQGRVLWSPAENGYDQAL EASKDKDKVKRHAVRALGNL LHFLQPSHI/GKTPHLQKFI*GSL SRALNLLF*QKLAMKVRWNA CYAMGNVFKNPALPLGTAPWT SQAYNALTSVVTs
8770	39138	B	8828	47	1576	
8771	39139	A	8829	2	2753	
8772	39140	A	8830	1	273	
8773	39141	B	8831	104	206	
8774	39142	A	8832	1	987	
8775	39143	A	8833	111	2187	DERRVGAADMFGRSRSWVGG GHGKTSRNIHSLDHLKYLYHVL TKNTTVTEQNRNLLVETIRSITE ILIWGDQNDSSVDFDFLEKNMF VFFLNILRQKSGRYVCVQLLQT LNILFENISHETSLYYLLSNYYV NSIIVHKFDFSDEEIMAYYISFL KTLSLKLNNHTVHFFYNEHTN DFALYTEAIKFFNHPESMVRIA VRTITLNVYKVDNQAMLHYIR DKTAVPYFSNLVWFIGSHVIEL DDCVQTDEEHRNRGKLSDLVA EHLDDLHYLNDILINCEFLNDV LTDHLLNRLFLPLYVYSLENQD KVFLIIHHAPLVNSLAEVILNGD LSEMYAKTEQDIQRSSVLP TLSS LWQGSLSLNLQSLGHLKCSS HLCGAQAAADSVTGEIPAIRSL EWLISAGSKARTFFFLKMLIGF WEKVDCEYQRRQVLSTRLQEA LPSNRLTDVAAVHSSCMLGFGS TAPRGSWIGDPAAVHLPLPGEL AEHLGSKGTTTGTKHQPQAKPS IRCFIKPTETLERSLEMNKHKGK RRVQKRPNYKNVGEEDEEKG PTEDAQEDA EKAKGTEGGSKGI KTSGESEEIEMVIMERSKLSELA ASTSVQEQNTTDEEKSAATCS ESTQWSRPFLDMVYHALDSPD DDYHALFVLCLLYAMSHNK/G KSPEKEEGLSGTQSHPGKAGTF GKEGAEERKRAQV

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8776	39144	A	8834	1	3050	RNLLVETIRSITEILIWGDQND SVFDFFLEKNMFVFFLNILRQKS GRYVCVQLLQTLNLFENISHET SLYYLLSNNYVNSIIVHKFDFSD EEIMAYYISFLKTLSLKLNHT VHFFYNEHTNDFALYTEAIKFF NHPESMVRIAVRTITLNVYKVS LDNQAMLHYIRDKTAVPYFSN LVWFIGSHVIELDDCVQTDEEH RNRGKLSDLVAEHLHLHLYLN DILIINCEFLNDVLTDLHLNRLF LPLYVYSLEN
8777	39145	A	8835	111	270	
8778	39146	A	8836	240	406	
8779	39147	C	8837	86	286	
8780	39148	A	8839	172	243	DPS*EARSMLLLLFLPPDHSGLP H
8781	39149	A	8840	280	526	GRNAVVS*AHCRSQTGPK*S SL/LVFPSSWYRHMPPHLAN* KKFFLHRDGGDLMLPRLVWNS WPQVILPPQPPKALGLLL
8782	39150	A	8841	3	1785	VLDARNAGAGGLAGPAGVLRG RASRCDPGAAGAGQGGRVR PGRAAAPSPPGGA*CVPTDA GAGPGSAGARQPLPFAAGALS HSGHC*RGLRPGSLASPAQAK AAWSGLLLSPAAAGRDGGRGH NPRDPPPLREHGPGIPGFHGR G*ELYQCHLGEGGAPDKPGS PCASCGLDGHWYRALLLETFRP QRCAQVLHVDYGRKELVSCSS LRYLLPEYFRMPVVTYPCALYG LWDGGRGWSRSQVGDCLKTLIL GKAVNAKIEFYCSFEHVYYVSL YGEDGINLNRVFGVQSCCLAD RVLQSQATEEEEPETSQSQSPAE EVDEEISLPALRSIRLKMNAFYD AQWKENGYYRAIVTKLDDKSV DVFLVDRGENSEVDWIINMLL RFLTNQEQGEETISKVIAQAGY AKYQEFETKENILVNAHSPGHV SNHFTTESNKIPFAKTGEQEQK AKRENKTTSVSKALSDTTVVVN GSTELVVQEKVKRASVYFPLM QNCLEIKPGSSSKGELEVGSTVE VRVSYVENPGYFWCQLTRNIQ GLKTLMSDIQYYCKNTAAPHQ RNTLACLAKRTVNRQWSRALIS

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8783	39151	A	8842	2090	2901	THLLVPGMQPLTWQMPFSPFLS ISPTRSNLPSAATPVIAQWA/HE QSGHGGRDGGYTWAQQHGLA FTNTDLATVNAKIGFAYPVCDA SAKTTIRGLLECLIRCDGIPHSIA SDQARIHRSRNQEVEVEVAPLT ITPSDPLAKFLLSVPVTLRSAGL EVLVPGEGLPMPGNTRTIPLNW KLRLPPGHFGLLLTLSQEAKNG VTVLAGVIDLDYQDEISLLHN GGKKEYARNTGDPLGRLLVLP CPVIKINGKLQPPNPGGTTNGS DPSGMKV
8784	39152	A	8843	1	585	
8785	39153	A	8844	1	1697	MDKYFMIKTPKAMATNTTIDK WDLIKLKNFCTAKETMIRVNR QPIECKMFAIYPSDKVILLFKM APKRNAEGLSTVSTCKKAAMC LIEKGCELVGPVGPQTHPVVTS PVSECIIGIDILSGWQNPFIGSLT GRVKAIMVAKDKLPLELPLPG KIVNQKQHCIPGWIVEISATIKD LKDAVIGIPTLPPFNSPIWPVQK TNGSWRMTVDYHKLNQVVTPI AAAVPDVVSWEQINTSPGTCL HWWPHGEFPRLVDREERTRW FTDGSAYAGTTQKWTPAALQ PLSRTSLKESECFIHGIPHSIA SDQGTHFMAKKVRQWAHAHEI HWSYHVPHYPEAAGLIEKWNG ILKPQLQCQLGDNTLQGWDKV LQKALYA\LNQHSVYGTISPIAR IHRSRNNQEVEVEVTPLIITPD PLAKFLLPVPSTLHSLDLEVLVP EGGMLPPGHTAMIPLNWKLRL PPGHFGLLLPLSQQAKKGVIVL AGVIDLDYQNEISLLHNGGKE EYALNIGDPLGHLLVLPVPCVIN VNGKLQQPNPGRITNGEDPSG MKVCVTPPGTTTTTKKP
8786	39154	C	8845	1	720	
8787	39155	A	8846	57	261	WNF/CDPGGPMMKL\FISFKLKT ISSTFLSPTCLVL*RRPSRSASSL TVLCTTTTRSSPLL GALV*TWP
8788	39156	B	8847	1	1158	
8789	39157	B	8848	1	2523	
8790	39158	A	8849	3	375	
8791	39159	A	8850	3	169	DFQPFTRVTVHWGKGNDQTFR GLLDTGSELTLPDGPKHYYGP PVKVGAYGAQLL
8792	39160	A	8851	3	376	

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8793	39161	B	8852	1	592	
8794	39162	A	8853	1	319	
8795	39163	A	8854	1	1071	
8796	39164	C	8855	1	862	
8797	39165	A	8856	1	1488	MGRARRLTPVIPALWETEADGS RALTVETTVTQLQHLNTVGIIG FRGGRGQVAAVNCQKRDIQPF TRVTVHWGKRNDQTFQALVDT GLELTLIPGDPKHHCDDPPVKVG AYGHQVINGVLAQIQITVGPVG PWTHPVVIFTVPKCIIDIDILRW QNSHTGSLTGRMKAIMVGRKAK WKPLELPLPRKTVNQKPYHTPV GTAEISATMKDLKDAGVVIPTT TLFNSPIWSVQKTGGSWRMTV DYCMLNQVVSAAVEAIVLDVVS LLEQINTS/P/WP*SGSCTAAFHH QMEVVHT*SGSSRS*RHNCTN GLMGSL*SVDRGREYGLVH RRFFTIC*HHPKLDSCSTTVPF* DIEGQL*REIFPPVSWRQGW LCMGSAWTFTHQG*PGYGH *VPNLPAETNTEPSIWHHSSG* SASYLVAG*LYGTSSIMERA CPHWNRHLF*IWVCLSLCTLCF C*DYHPWTLEMPYPPSPYSTKL CCCPRHLLYG*RSAAV
8798	39166	A	8857	1	1056	MSSVLLRLIYQLTQKTASFEGG PEQKALQQIQAAVQAALPLGPY DPANPMVLEVSADRDVWSL WQVPIGESQQRSLGFWSKVLPY SADNYFPERQLLACYWALLET DRLTVGHQVTLQPELPIMNWV LSDPSSHKVGHVHQHSIHKWK WYIRDQTRAGPEGTTTPVITQ/ WDAHEQSGLSGRDG\KGQRFV LTGVDTYSGYWFAYPAHNASA KTSIYGFTCLIHCHGIPHSIASD QGTLFTAKEVWQWAHAHGIH WSYHIPHHPIAAGLIEWWNGLL KSQQLCQLGDNTLQGWGKDL QKAMYSNLNRLIYSTVSPISRIH GSRNQRVEVEVAPLTITLSDPL AKFFLLP
8799	39167	B	8858	603	1785	

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8800	39168	A	8859	3	467	RIHVRPEITLTA/ANTARPY*IDP HDTLLSHSNFGSSDCPSSSKMR QALELVRERAPELMIDGEMHG DAALVEAIRNDRMPDSSLKGS NILVMPNMEAARISYNLLRVSS SEGVTVPVLMGVAKPVHVL PIASVRRIVNMVALAVVEAQTQ PL
8801	39169	A	8860	1	1878	
8802	39170	A	8861	3	684	MPNYLRFVRGLIDSSDLPLNVS REILQDSTVTRYLRNALTKRVL QLLEKLAKDDAEKYQTFWQQF GLVLKEGPAEDFANQEAIKLL RFASTHTDSSAQTVSLEDYVSR MKEGQEKIYYITADSYAAAKSS PHLELLRKKGIEVLLLSDRIDE WMMNYLTEFDGPPFQSVSKVD ESLENLADEVDESAKDAEKALT PFIDRVKALLGERVKDVRRLTHA GSGLVGENV
8803	39171	A	8862	2	393	LEFGKKLGNAADYFIANKIDQ PKIAVINCEAFEVCVQRRKGFE EVLKSRVPGAQIVANQEGTVLD KAISVGEKLIISTPDLNAIMGES GGATLGAVKAVRNQNRPEKL LFSVRI*QPKLLRSWKTIRC
8804	39172	A	8863	414	805	TPSRVEGNQEYPSLVYIP\SQAP\ WNM*TRDHKHGLNLYVQRVFI MTDAEQFMPNYLRFVGGGLIDSS DLPLNVSREILQDSTVTRNLRN ALTKRVLQMLEKLAKDDAEKY QTFWHQFGRGIIIFTDSQFNR
8805	39173	A	8864	3	684	MPNYLRFVRGLIDSSDLPLNVS REILQDSTVTRYLRNALTKRVL QLLEKLAKDDAEKYQTFWQQF GLVLKEGPAEDFANQEAIKLL RFASTHTDSSAQTVSLEDYVSR MKEGQEKIYYITADSYAAAKSS PHLELLRKKGIEVLLLSDRIDE WMMNYLTEFDGPPFQSVSKVD ESLENLADEVDESAKDAEKALT PFIDRVKALLGERVKDVRRLTHA GSGLVGENV

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8806	39174	A	8865	1	624	AKLLRFASHTDSSAQTVSLED YVSRMKEGQEKIYYITADSYAA AKS\SPHLELLRKKGIEVLLLS RIDEWMMNYLTEFDGKPFQPG AKVDESLEKLADDEVDESAKEA EKALTPFIDRVKALLGERVKDV RLTHRLTDTPAIVSTDAD*MTP RMA\KCFGGAGQKVPEVKYIFE LNPDHVLVKRAADTEEEAKF CVWGKNCVLGPF
8807	39175	A	8866	471	659	
8808	39176	A	8867	638	834	SSNTMMHFQIHMKQESTEQQT MTARR*Q*SEVDE*REDTTLAA RGRTEA*SARYQLT*QSVPSPH
8809	39177	B	8868	1	1383	
8810	39178	A	8869	4452	4896	SQHSEVFVCHMLSQPRAPGAG RYL/LQRKA/SEALEVEV/VDTW QADAVRDTRTLS\GGESFLVSL ALALALSDLVSHKTRIDSLFLD EGFGTLDSETLDTALDALDALN ASGKTIGVISHVEAMKERIPVQI KVKKINGLGYSKLESTFAVK
8811	39179	A	8870	31	185	GHRRRPFKRGRKSR*RGGSQRR VNEDARRSAWMRKKQRRLISK ISDRTARK
8812	39180	A	8871	1744	2670	

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8813	39181	A	8872	1	1680	MGFWVENGEIQYPVSEITIAVSS LVFSSASFAADLEDNMETLNDN LKVV EKADNAAQVKDALTKM RAAALDAQKATPPKLEDKSPDS PEMKDFRHGFDILVGQIDDALK LANEDVFTRTL GADALYQFQNI RHVLRMQRIAAGEGNTLAFDT SVIQIVNDLVFHC FGKWL TGIY PPCAFVIATGAFMNTPGDKQGA TSAGAVDDVD RISNEITIGIPML TGYILLHVKGVR AKSSADHRR RPLASLATPPHKS WTCTLLFFR LPNVVCYANRIQQLTPILETL PQ SDELP HCEETVVLENWRQVHE QCLALHSQQQTLQQQDV LAAQ SLQKAQAQFD TALQASVFDDQ QAFLAALMDEQTLTQLEQLKQ NLENQRRQAQTLVTQTAETLA QHQQHRPDDGLALT V TVEIQI QELAQTHQKLRENTTSQGEIRQ QLKQDADNRQQQQLMQQIAQ MTQQVEDWGYLNSLIGSKEGD KFRKFAQGLTLDNLVHLANQQ LTRLHGRYLLQRKASEALEVD VVDTWQADAVRD/TRTL SGGE/ SFLRLR*VTRRHQLWLHPLRH
8814	39182	A	8873	3	823	
8815	39183	A	8874	287	426	YSGLSAVNPVNDAYGVR FQLP SVNRIPVS***VKLAPPAHQIKRI SGKCRFIPLC*YAPPGFSSASTM RATGILSTASQPPGKLPCMEEST AERRVGLPPLAKW
8816	39184	C	8875	1	2058	
8817	39185	A	8876	1	1989	
8818	39186	B	8877	1	3132	
8819	39187	A	8878	194	789	LTKLPSLFTFTRLSSSDNDLRGG DKRGGANGARLAL*PQTRTGD VTRRQPIRVCTVIEMFELLE/PIA DGFRNYRARLDVST/TESLLIDK AQQLTLTAP/EMTALVGGMRV LGANFD/GSKNGVFTDRVGVLS N/DFVNL LDMRYEWKATD/ES KELFEGRDRETGEVK/FTASRA DLVFGSNSVL FVRILGGFFCEYS LTIRILH
8820	39188	A	8879	1120	1395	

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8821	39189	A	8880	1	629	THRPPKSGPPCAKITRTTHVTA KPLFPQTNPKQTVRRMQGELY LVDESGQEFVSALNYRRRKTR NNATAYPIRLFYLSVRPRAGSK SSRTIWILLAD/AKITPYERRQL VARIEA/LSTEIPAQVRPLYQLW RDGQALQLQLAEERQR/YTGG ADTKQDGATTTKDKQQR*TKG TRSQPSTREVQQQSTQKHSTSR PPNHSAQPSNSALVTRQ
8822	39190	A	8881	3	307	
8823	39191	C	8882	161	337	
8824	39192	C	8883	34	168	
8825	39193	C	8884	172	456	
8826	39194	A	8885	174	516	VSGVRCWIHSSAFPPVFPGFLLP VAFFDRPPARLYRMHTWSHME SQEPARLP SHYAD*GQGSQKR\ DSCSSGWAGLLFISPFVLWSA EIEGSLNHITLGFRLSHGTTSAD GMTF
8827	39195	A	8886	1	2964	
8828	39196	A	8887	1	2724	
8829	39197	A	8888	3708	7098	
8830	39198	A	8889	115	339	
8831	39199	A	8890	445	634	VINTFSLHTMGSTS*HQGNNGWR HLTLHPRNSKHPLEQPTPGVLQ LRPPTASLRQLLSNAGCSG
8832	39200	A	8891	1663	2234	GEGLRRGLFPGA EAQGRAETA GCLRRGRGALALPGSPGLSP WVEDAGGHRVLHGRAVLRC A RAPPVPQPAGLAKVEPYSGVSS LTAFPQAPILLSSGGQSRAGERT TM*G*PEMEKL*SCIGEGHQPC HR\KSRPAAPCPPPSAMFLTPR SSATLLSSSSKGASGGWEPSAA PLGGSGQPFREMVSQH
8833	39201	A	8892	202	542	
8834	39202	A	8893	564	1179	QHRLTYRTALWIHYRPDPKPL MSFRPGHQRLSVTSLLVCHGLL MVGTS LGVLVALPVRLSSPSL PPVELL*HSVCVSVCRGISCL*W RLWDQISDW SRTL IQPPRPPSC CPVVASPGPGKGPQCNGDPKW KSCEAASVKGTSPATGKSRPAA PCPPPSAMFLTPRYSATLLSSS SKAASGAREPSAAPLGGSGQPF REMVSQH
8835	39203	C	8894	321	539	

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8836	39204	A	8895	630	983	NLETNGKIPFENPWSKVPIRFR QNLRRVCLTTGGQIPTGRWVT ATDSRGAGDYRLCLHHLR*PD GARLSAGSADCAANRRDVGGS GRGLPGRLSVQQPRRVRRGQP DVQPVS WPGC
8837	39205	A	8896	31	144	
8838	39206	A	8897	1	1775	MEISFTRVALLAAALFFVGCDQ KPQPAKTHATEVTVLEGKTMG TFWRASIPGIDAKRSAELKEKIQ TQLDADDQLLSTYKKDSALMR FNDSQSLSPWPVSEAMADIVTT SLRIGAKTDGAMDITVGPLVNL WGFGEQPPVQIPSQEQIDAMK AKTGLQHLTVINQSHQQYLQK DLPDLYVDLSTVGEGYAADHL ARLMEQEGISRYLVSVGGALNS RGMNGEGLPWRVAIQKPTDKE NAVQAVVDINGHGISTSG\SSRG D*DGYGQGLSRVIDPQTGRSIE HNLVSVTVIAPTALEADAWDT GLMVLGPEKAKTCSPGGLRGT ESLNTLRDRITQINGIDEVRMD DSWFARLAALTGLVGRVSAMI GVLMAA VFLVIGNSVRLSIFA RRDSINVQKLIGATDGFILRPFL YGGALLGFSGALLSLILSEILVL RLSSA VA EVAQVFGTKFDINGL SFDECLLLLLSSMVTFWCRNLF TSLLELWINHADKQDDNSCLSS ASVYLKAKMMKVMLPMQLLS SGTGFYDRLENSGGRYESRRS LTRQFREEPTAPIPRECSQRIDFL LFETPSVSASSAGFWLRFGSTA
8839	39207	A	8898	10	300	PTSIPRESSSGTWQVASTTVLF SAILAGLSASAFCLGPGIPQAR PNNSAVNSKNSRFGIPRQAE*P EQGGVYHHTAGVLKKLIPPSAR QHPDRC
8840	39208	A	8899	1657	2061	QMPGNPFAFSALLVAFKHQFAI AGGIFIKEVTFAIKTSQLLWFGQ PIFNNETTHQTACFLSVEADDL KFAVLLIEEHRLDNLGIQFLRLH RFKILI*RQINHHIALLCCERLVQ LVGDDISPEFDELELRFSEVH
8841	39209	B	8900	26	1540	
8842	39210	A	8901	1	3396	
8843	39211	A	8902	1	3522	

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8844	39212	A	8903	1	105	SPQPDRHYRHHRRQGGLVCIVHIF YFCAKRWMAAIL*TQHRHRFL TTDDGKFAVANGSFS*RGLHH/ ATGLLRFPFIC*GPLVCIVHIFY FCAKRWMAAIL
8845	39213	B	8904	1	960	
8846	39214	B	8905	1	2618	
8847	39215	B	8906	1	490	
8848	39216	A	8907	2820	3332	ATEGYRQQCRQFHAAAYDESP HRNRRRKWRPTYRCHPAPDHR TACLSAFYGNAPGCVQTGPV RRSGAASASSPAVFLSGTSPWS FARTIALVRGRS/LKIDTNSPWA YFSALLM/F/DLLSHVHEWCGR YISPPRFAQTGETLPCRRHQGSR YSAYLSASRYPARRKWYFSPR
8849	39217	A	8908	3	716	EVDDTAKHRRRDSFPQ*DP/LM NIRYAPSP/HLPATVALTGAVIIT VLYALAGKRLFCSWVCPNPIT DLANWLRRRFDLNQSATIPRHI RYVLLVVILVGSALTGTLIWEW INPVSLMGRSLVMGFGSGALLI LALFLFDLLVVEHGWCGHICPV GALYGVLGSKGVITVAATDRQ KCNRCMDCFHVCPEPHVLRAP VLDEQSPVQVTSRDCMTCGRC VDVCSDEVFPITRWSSGAKS
8850	39218	A	8909	3	323	
8851	39219	B	8910	94	2205	
8852	39220	A	8911	504	694	FNQLGRDWRTYYRKSDPPR/Q WLRHSPVR*VLKMVPMAIRGL LWMLSAQPAPAICSSRQTKMV
8853	39221	B	8912	1	2031	
8854	39222	A	8913	3	190	FIATPGYTGEAGYEIALPNEKA ADFWRALVEAGVNPCGLGARD TLRLDGDESYG/QEM/DETVSP* AMKLRCPMKKRPISGVRWWK RVLTHVAWARVTRCVWTGMN LMARDGETVSP
8855	39223	A	8914	1	621	MWPSVSHLTQMNIPSRFSEPSG AIEVPPDKVHELRLRLAQQLP KGGAVGFELLDQEKFGISQFSE QVNYQRALEGELSRTIETIGPV KGARVHLAMPKPSLFVREQKS PSASVTNLLPGRALDEGQISAI VHLVSSAVAGLPPGNVTLVDQ GGHLLTQSNTSGRDLNDAQLK YASDVEGRIQRRJEAISPVG G\TAQLDFAS
8856	39224	A	8915	1	2274	
8857	39225	A	8916	957	1067	

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8858	39226	A	8917	1	1242	MDGLNTDKGSSVFHTPTDRLVI CCPVDADERMTTPPRLWDHEP SKPLFFTNYPVSAPFVGL/PPGK RPQGGFRAGNL*TSSKTIGRDL NDAQLKYASDVEIGRIHRRIEAF LSPIVGSGNIPAQVRAQLDFASK DQPEEQYRPNGDESHAALRSR QLNESEQSGSGYPGGVPGALSN QPAPANNAPISTPPANQNNRQQ QASTPSNSGPRSTQRNETSNEY VDRTIRHTKMNVGDVQRKLGII GQGKNEKPLKQLERVEEKPNG EGWEKKWQGKEVWKKEDGTI YLQKNKLRAPTDSTLWFAKNG RVAKIAKALVEPANFNPGVD EDDTEKLLLEVPEELTNEKLDL EQKCIHIYDDKRKQTKQTPQDV FLKRVTSPPQEPQPGSGGPIEEG IVIIGEDSSVQVLAPEDLPVEKL
8859	39227	A	8918	256	1510	RRFVGFRGTGVTKEAIGKRGV DQFFRQSQYRLVGTVAGMPE LTRLFVQRFTQFRMRMAQRVH RNATREVDILFPLLIPQARTFAT YRYKGCRSVNRYHPFIKVFRN WREADLSLKRV*TLNDTGYQ EVITYSFVDPKVQQMIHPGVEA LLLSPISVEMSAMRLSLWTGL LATVVYNQNRQQNRVRIFESGL RFVPDTQAPLGIRQDLMLAGVI CGNRYEEHWNLAKETVDFYDL KGDLESVLDLTGKLNEVEFRAE ANPALHPGQSAAIYLKGERIGF VGVVHPELERKLDLNGRTLVE LEWNKLADRVPQAREISRFP NRRDIAVVVAENVPAADILSEC KKVGVNQVVGIVNLFDMYRGK GVAEGYKSLAISLILQ\DTSR TL EEEEIA\AT\VAKCVEALKERSQ
8860	39228	B	8919	47	156	
8861	39229	B	8920	139	993	
8862	39230	A	8921	1	284	MRRKRLIRPTVQAQVCRPDKTR KRRIRQWC/YGCRMRRKRLIRPI KYANRQAETA*GLDALHLSCSS HG*KGPT*SSGHGFRGCKPQAL EASMWC
8863	39231	A	8922	1	813	
8864	39232	A	8923	1	1176	

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8865	39233	A	8924	3	618	AGGPPLNPIEMA*KS\WDEIIVK LEKDPQLKTQFLEVYPQGFSGE NITDAIAEFEKTLPDSPFDKW LRGDENALTAQQKKGYQLFKD NKCATCHGGIILGGRSFEPLGL KKDFNFGEITAADIGRMNVTKE ERDKLRQKVPGLRNVALTAPY FHRGDVPTLDGAVELMLRYQV GKELPQEDVDDIVAFHLHSLNGV YTPYMRDKQ
8866	39234	A	8925	2	212	QYPGLDLHGAKGLGDGLAGKR YRQLLVSC\RHVLYRHPAGPGT RK*RRSGIRWLHRLCGNEPRCK LLVDQ
8867	39235	A	8926	1	640	
8868	39236	A	8927	1	704	MSSFQFEQIGVIRSPYKEKFAVP RQPGLVKSANGELHLIAPYNQA DAVRGLEAFSHLWILFVFHQT MEGGWRPTVRPPRLCGNARM GVFATRSTFRPNPIGMSLVELK EVVCHKDSVILKLGSLLVDGT PVVDIKPYLPFAESLPDASASYA QSAPAAEMAVSFTAEEVEKQLL TLEKRYPQLTLFIREVLAQDPRP AYRKGEETGKTYAVWLHDFN VRWR/VSP*ACSTFQLEP
8869	39237	A	8928	3	313	AQRGGI*RGSLATAGLRSGGL HPIRTSQQFCL\PVRGKPPTQAS VMVDAPHSTKLKHLRSISDCCT GSKNFKPVDLSLLGSMGVGSTE LDHLAPWLQAPFPGE
8870	39238	A	8929	13	453	
8871	39239	A	8930	380	966	LRHAVLLTEGF/SYKPHAFALG FVEAPRGEDVHWSMLGDNQKL FRWRCRAATYANWPVLRMYL RGNTVSDAPLIIGSLDPCYSCTD RVTLVDVRKRQSKTVPYKEIER YGIDRNRSPLNRSLYPREVPSTT LQPLRTPRCPGKNLALAVNVST GTNGQKPESCGPGRCRMMKKGE YKRTISGGRTIIRVHIARLLRTF

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8872	39240	A	8931	1415	2085	SQVPICQRSTSCRVKRLFSWKM AYRSALVTPWRVFRRNPVPR TSPVVFTGGDVFSRVMVRVKE T/FDSLAMLEFALDNMPDTPLL TEGFSYKPHAFALGFVEAPRGE DVHWSMLGDNQKLFRWRCRA ATYANWPVLRVMLRGNTVSD APLIIGSLDPCYSCTDRVTLMP QCIACGACACACPANALTIQTD DQQNSRTWQLYLGRCIYCPSS NNNGPVISFN
8873	39241	A	8932	1	1127	MKKRKTVKKRYVTALVIVIAG LMTLWRIRNAPVPTYQTLIVRP GDLQHSVLAPGKLARTSKNFA QFIRVRYSASFSLAGEKKKR**P RVHGVQNASSGRYRGTCRLG SDSRKKLVEILALATPNMEQRT QGIGILDPQIARDLRFDHPYAEY DNIPK\TLFTFTAADVFSRVMVR VKETFDSLAMLEFALDNMPDT PLLTEGFSYKPHAFALGFVEAP RGEDVHWSMLGDNQKLFRWR CRAATYANWPVLRVMLRGNT VSDAPLIIGSLDPCYSCTDRVTL VDVRKRQSKTVPYKEIERYGID RNRSPNRRCTGEGWTRA WITL PLLIKPLTPLMIASFAFNFNFV LIQLLTNGGPDRLGTTTPAGYT

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8874	39242	A	8933	1	2466	MLRGVNVLADAVKVTLGPKG RNVVLDKSFGAPTITKDGVSVA REIELEDKFENMGAQMVKEVA SKANDAAGDGTATTATVLAQAII TEGLKAVAAGMNPMDLKRAS RSRKGYPARIRQELNQKGISR EATEKAMRECDIDWCALARDQ ATRKYGEP LPTVFSEKSRKLI GVKRAFTHQAVNAGFCTQPAV SVIAGDFDRHGFNTRHFTFRLF DDFSFETTRFCPAQIHTLKHARP VLCFRTARPLNIEVAVGAVIF AREHTAELKLRQFFQGAPQKA VISIPVVPQVTGVVIEVTDKKNT LIKKGEVLFRLDPTRYQARVDR LMADIVTAEHKQALGAELDE MAANTQQAKATRDKFAKEYQ RYARGSQAKVNPFSERDIDVAR QNYLAQEASVKSSAAEQKQIQS QLDSLVLGEHSQIASLKAQLAE AKYNLEQTIVRAPSDGYVTQVL IRPGTYAASLPLRPVMVFIRSET SLRTHCPGHADYVKNMITGAA QMDGAILVVAATDGMPQTRE HILLGRQVGVPYIIVFLNKCDM VDDEELLELVEMEVRELLSQY DFPGDDTPIVRGSALKALEGDA EWEAKILEL/RWLPGLYSGTR ACD*QAVPAADRRR/SSPSPVV VPLLPPV*NAVSSKLVKKLK\R WYPRDSEVYLYWR*NVPPTAG RRPCW*ERRCSAAWYQT*RNR

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8875	39243	A	8934	1475	2904	FWRAAAPIPCWRSRGAVKKQH VEVTQLDWTTPGRQYAGPIPCS RRGYCPLPRSGSVRWADL/FPP A/LD/LAGHPG/AKVANLVPKTT FIDGVDQTSFFLGTNGQSNRKA EHYFLNGKLAAVRMDEFKYHV LIQQPYAYTQSGYQGGFTGTV MQTAGSSVFNLTYTDPQESDSIG VRHIPMGVPLQTEMHAPGLPLA SSMKRWIRATGFIKGKEQFED VVPVLGSKVNGVQFNAELVAD SLGISQIRCRCAIFLTVVFFPVLH KQAFDLISLLLQQPGRNGGIDT AGHADDYFFCGFRHWITHDIEL QGGARQKDAADHYLAGDIESL PLATATFDLAWSNLA VQWCGN LSTALRELYRVVRPKGVVAFTT LVQGSLPELHQA WQAVDERPH ANRFLPPDEIEQSLNGVHYQHH IQPITLWFD DALSAMRSLKGIG ATHLHEGRDPRILTRS QLRLQ LA WPQQQGRYPLTYHLFLGVI
8876	39244	A	8935	1	920	MARADTVSVPMFMGLAAKPC WRDTEPNTGYRGPHVRNIQLT HDPRLDYRSI/LIDINDIGQTFHE RLHPDACLSNAILVHNKKGGP LADGIVITPSHNPPEDGGIKYNP PNGGPADTNVTKVVEDRANAL LADGLKGVKRISLDESDGIRSK NDVIDTSDDDM**QCLSRRSN GHPGAKVANLVPKTTFIDGVD QTSFFLGTNGQSNRKA EHYFLN GKLAAVRMDEFKYHVLIQQPY AYTQSGYQGGFTGTVMQTAGS SVFNLYTDPQESDSIGVRHIPM GVPLQTEMHAYMEILKKYPPR
8877	39245	A	8936	471	668	
8878	39246	A	8937	1	1233	
8879	39247	C	8938	1	1548	
8880	39248	A	8939	1	1260	
8881	39249	A	8940	1	1468	
8882	39250	A	8941	261	596	RSESCCGHEPDGPETRQP*PQR LWTCAYSPGTESERYFPRSDRK SDA*M*HRLVRTGARS GDAKI WRTFANCLFRKIKKTYRRSQTG FYAPGGERRFLYAASRKRNR F

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8883	39251	A	8942	2	1356	CLPGLKLVRLLYRLEERNARRT SAAVDAT*RAGAWLAQCGLTV EQLAR\QVD\PDMTTRAHLYHC DHRGLPLALISEDGNTAWSAEY DEWGNQLNEENPHHVYQPYRL PGQQHDEESGLYYNRHRYYP LQGRYITQDPMGLKGGWNLYQ YPLNPLQQIDPMGLLQTWDDA RSGALTWYGWDGDRLLTTIQND RSRIQTIYQPGSFTPLIRVETATG ELAKTQRRSLADALQQSGGED GGSVVFPVVLVQMLDRLESEIL ADRKRAATTWSHNHYANKKE GIKATGYRLAQTGLGKCEESSV FRVTRKSHSSFVWLDKAVTPHP TSNVRAGCLMRRWRVLSGLHR CEVLHPHTPHPAYHAGCGVSL QRNIRHFFLNGLRFQLRFRTIC CLRLVVVQPQHFAGVLQLAFC CRYITVQLASIRRNDRFQRSPLPL RAGNTIAKYFFQIQHNRRGG
8884	39252	B	8943	1	1159	
8885	39253	A	8944	1	1304	MAETQQQFKKRMAASGLETRF DEVGNLYGRLNGTEYPQEVVL SGSHIDTVVNGGNLDGQFGAL AAWLAIWDLKTQYGAPLRTVE VVAMAEEEGSRFPYVFWGSKN IFGLANPDDVRNICDAKGNS/IC RCDEGLRIYSSERPTNS/VVRIL KPLLNCILNRA/DVLERITAWD KPDCH\TLHHHADLSGHFPEEIG PLLFAGFSSAWQNGPSAFSWQK HGSAQTSSIAVLHRTPRHAGCL AQCDFTRAFFQIMLKNYLRKK RWKKKIHFNPASGKSS/RAIPEG YVTTYGDVAKLGGIAPGRAPG GR/VQRQALLAEGAGTAEDGFT *VGEVEDAARDGP*TDAERTG* TYADAGRQDPQSAEDRQRANL HGNADR***RFASGGFHRGYHP RAAAGFCDHRKPACGNARRAG WPDRA*SKSSAYAFRYRYEHL HAGRSG

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8886	39254	A	8945	1	1695	MRSDPDTSVNEIETKLSALLGS ETTGEILFDLLCANGPEWNRV TLEMKYGRIMLDATAIIDEQDV PTHILSKLTFTLRNHPEGVVMK NFEVLQPLQNSLSGLPLWVSR ILQQINQLTHYEPVIGIMGKTGA GKSSLCNALFAGEVSPVSDVAA CTRDPLRFRLQIGEHFMTIVDLP GVGESGVRDTEYAALYREQLP RLDLILWLIKADDRALATDEHF YRQVIGEAYRHKMLFVISQSDK AEPTSGGNILSTEQKQNISRKIC LLHELFQPVHPVCAVSVRLHPV VALLQQFRTDDETRHYHYDS QHRLVDYTRTQYEEPLVESRYL YDPLGRRVAKRVWRRERDLTG WMSLSRKPQVTWYGDGDR TTIQNDRSRIQTIYQGSFTPLIR VETATGELAKTQRRSLADALQ QSGGEDGGSVVFPPVLVQMLD RLESEILADRVSEESRRWLASC GLTVEQMOMQMDPTEGTTAW Y/AEYDEWGNLLNEENPHQLQ QLIRLPGQQYDEESGLYNNRHR YYDPLQGRYITQDPIGLKGGW NFYQYPLNPISDIDPLGLSMWE
8887	39255	A	8946	605	1395	SMSLLKNIRLSSASKQCAACSG WPAAAGIRGVSGGQG*ARVSSS ANTATALSSRLLPGQNSVTVP A*RMNCVLRVTPLASKNRGGKP APSGTEGKGLPEVQPGQLRAH GLPVSENLEQDFYASGPNQK WAGDITYLRTDEGWLYLAVVI DLWSRAVIGWSMSPRMTAQLA AGCPKPLWGTPSFPGPACGLAP SSAGVLPRGFVPAVWLDSEDPE EYVGSSDFLTQMMSMKKVDLK KNRAATDADGQFSPRCCMPEK YAGSHN
8888	39256	A	8947	1	1914	
8889	39257	A	8948	1	4767	
8890	39258	B	8949	1	2294	

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8891	39259	A	8950	115	3551	NPALTRIVPAQQNLYTNTLLAA RIKQRLTEQFELMLRQAQIDFA GKAHSLTEAQANTTQVSAERD RLFKNYQRYLKGSQA AVNPFS ERDIDDARQNFLAQDALAQIQS QLDSL VNGEQSQIVSLKAQLAE AKYNLEQTIVRAPSNGYVTQVL IRPGTYAASLPLRPVMVFIPDQK RQIVAQFRQNSLLRLAPGDDAE VVFNALPGKVFSGKLAAISPAV PGGAYQSTGTLTNTAPGSDG VIATIELDEHTDLS
8892	39260	A	8951	845	1213	DKGEIGGWAAQTHRGSHEQGA RRVPEDRDARARRKNEEPAAR PRTTINTRNGSRKGPERK/WADG RGHKA EAGRRKRRKRQ*KEEM RKIRQQESGGEKKRGLCGRPPG GGNNCMEGRERRGRKR
8893	39261	A	8952	843	1061	NRPPVCACHRQVVL PVPVNR APA EKWQVPRVTL PGRQSTSW FAAVVYRN*YQYCALTAQRGR RSPRQLPHR
8894	39262	A	8953	1	682	MIRIPGCEDKLGADQPAFVLY LEIDPHQVDVNVHPAKHEVRF HQSRLVHDFIYQGVLSVLQQQL ETPLPLDDEPQPAPRSIPENRVA AGRNHFAEPAAREPVAPRYTPA PASGSRPAAPWPNAQPGYQKQ QGEVYRQLLQTPAPMQKLKAP EPQEPALAANSQSFGRLTIVH SDCALLERDGNISLLSLPITGIW CSD*H**PMIPRLIPASVRSSSM VESAK
8895	39263	A	8954	1	1887	
8896	39264	A	8955	189	552	LFRGEKGARNEVLATRYRQT VSGDFRHLHCLADQYALGGAY QF*AGLY*LHQA WEMNRGLQL LSDALGEQYAQHGNWRFLRNN DRFVFQILRSFEHDNSEDKPGP GMPPHGWRTQFWGG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8897	39265	A	8956	263	3549	TGGPSSPSSHWKTPVVIYWDGT ALRCVFVPVLGETGAQRKRISA RKGSLLTSCPQGALSEHCPTTP APLPSQRRNHWMENISPFERSVG VSASRCSES*MRPWNSRMPRLG RSQGDSSSAL/MSTGVAFRGRF LKGGLPQAPAVAAATPWLCTQ GVAGETTPAVNVKYNVRVRVS EYISMHVHREVTARNVYVTQT RRPMTTFPTLAWETPHYHRRY GVSLSSAWVQVGPPRYCRQT NALSNLPNFNLKSGADTQ
8898	39266	A	8957	1	1799	MMRDRLINHVAIRPACE*QLGA DQQPAFVLYLEIDPHQVDNV HPAKHEVRFHQSRLVHDFIYQG VLSVLQQQLETPLPLDDEPQPA PRSIPENRVAAGRNFHAEPAA EPVAPRYTPAPASGSRAAPWP NAQPGYQKQQGEVYRQLLQTP APMQKLKAPPEPQEPALAANSQ SFGRVLTIVHSDCALLERDGNIS LLSLPVAERWLRQAQLTPGEAP VCAQPLLIPLRLKVSAAEKSALE KAQSALAEGLMVNSTRFSLHE HPDAERSPGQSGEQRQPPAVD DYAIVDEYGRHYRRAVAGTLL HVSVDSGTTQTVFMYTWLSMA LIIALPAFIFARVPNDTHQNVAIS RRKTESRNEVLATRYHRQTVS GDFRHLHCLADQYALGAPIPPD GTRRPILVNGAEVGAVIASPVE RLTRNTDINFDKQQRQTSWLIV ALATLLAALATFLLARGLLAPV KRLVDGTHKLAAGDFTTRVTP TSEDELGKLAQDFNQRASSTLEK NQTPITSRGHPRIFLARHPAPAP TTLTSLALKIIRSPAFLPDTASEC AMAIDCYILAASTQAYKAASSL SLSVVLATSARFKTSSTSIWVKS SSTNSCE
8899	39267	A	8958	1348	2190	
8900	39268	B	8959	1	105	
8901	39269	A	8960	1	781	
8902	39270	B	8961	1	1716	
8903	39271	A	8962	754	807	
8904	39272	A	8963	821	875	FFSLFFFISLASGLSIL*W*FVFL WDRW*YPLYHFLHLFDSSLFS SLLVLLVYQFC

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8905	39273	A	8964	1	315	SGSVMPPALFFWLRLDLAMQAL FWFHMNFKVVSNSVKKVIGS LMGTALNL*ITLGSMIAFTILILP YP*AWNVLFPVCVLFYFLEQW FVVLLEEVLHIPCKLDS
8906	39274	A	8965	42	403	GLCSVPLVYISVLVAVPKLFW* L*PCSIV*SQVA/SIPPALFFWLRI DLAMWALFWFHANFKEVFSNS VEKVIGSLMGMALNL*MTLGN MAVFTILILPTHEHGMFFHLFVS SFISLSSGL
8907	39275	B	8966	179	1225	
8908	39276	A	8967	342	407	
8909	39277	B	8968	143	3122	
8910	39278	A	8969	692	1360	MCGIIEGSLFHCISITLFWYQS HAVLVTVAL*YFLKSGGLMPP ALFFWLRLDLGMLALLWFHMN LKVVFSNSLNKVIGSLMVMAL NL*ITLGSMIAFTILILPIHEHGM FFHSFVSSFISLSSGL*FSLKRTF TSLVSWIPGYFIFVVAIVNGSSL MIWLSVCLLLVYKNACDFCTLI LYPETLLKLLICIRRFWAETMGF SRDTIMSSANRDNLTSFPN
8911	39279	A	8970	2116	2418	FFSLFFFISLASGLSIL*W*FVFL WDQW*YPLYHLLHLFDSSLFS SLLVLLVY/PILLIFS KIKNKKP APGFIDFFEGFFVSLSPSVLL*S* LFLAFC*LLNVFALASLVLLIVM LGCQF*IFPAFSCGHLVL*ISLYT
8912	39280	A	8971	1	558	LYKNSVKYFHN*PVG NIMSNIPI VGALFSGPAFGIGILAAGVILAI MIIPYIAAVMRDVFEQTPVMM KESAYGIGCTTWEVIWRIVLPF TKNGVIGGIMLGLGRALGETM AVTFIIGNTYQLDSASLYMPGN SITSALANEFAEASGLHVAAL MELGLILFVITFIVLAASKFMIM RLAKNEGAR
8913	39281	A	8972	1879	3735	
8914	39282	A	8973	16	452	VGQLFWKGYPLAGFPDPCAQS WKVAHVLLRLGHIKSVSANG KEVTSKFHRKENLARGLHSRPR RGQVRVGGVAQHCEPR*TPPPA CRVRLPGCPVDPASPGRGRTS AGTPEPALRHPHTPRGPVAART LPAEPGPAPSGLPP

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8915	39283	A	8974	158	531	CSLRRGPPDP/PGAYCKRRATG AASTRSLSGAVAGSPAHRCESR PLQAMGA\GGLPHEGGRGSG GRKRTDGPVCGCGERAPREYP DPSRSWRGPQRKPAPSQHPCLP RLSRGPGRHPEGPHQVR
8916	39284	B	8975	22	387	
8917	39285	A	8976	241	389	VASQAPGVRALQVGAHSC*G RGHVSWWPPWPWGPPCCPLCL LNGLPNI
8918	39286	A	8977	1620	1936	TLFFFESESHSVTQDRVQWYDL \NSLQPPPPGLK*FSCLSLPSSWD YRRPPPCPANFFFLVELEFHHV GQDGLELLTSGDPPALASQSAR ITGMSHCAQQNKHIL
8919	39287	A	8978	3	105	
8920	39288	A	8979	1	1821	MLKNFKKGFNGDYGVMTMPG KLRTLCEIDWPTLEVWGPSEGS LDRSLVSKVWHKVTKSGHSD QFPYIDTWLPQWVRGQAAAVL VAKGQIVKEGSRSTHRGKSTPE VLFDPTSDDPLQEMAKVIPVVP SPYQGERLPTFESTVLVPPQDK HIPRPPRVDKRGGEASGETPPL AARLRPKTGQMPLREQRYTGI DEGDHMAERRVFVCQPFTSAD LLNWKNNTPSCTEKPQALIDLL QTIIQTHNPTWADCHQLLMFLF NTDERRRVLQAATKWLGHEAP ADYQNPQEYGKEESPAQFYER LCEAYHMYTPFDPDPSPENQRM NMAVSQSAEDIRRLQKQAG FAGMNTSQLLEIANQVFNVD AVSHTGAEHSVVTGPVAPLSK KTIDIIGAMGVSAKQAFCLPRT CTPGTKDYRLVQDLRLVNQAT VTLHPTVPNPYILLGLLPAEDS WFTCLDLKDAFFSIRLAPERQK LFAFQWEDPESGVTTQYTW LPQGFKNSTIFGEALARDLQK FPTRDLGCVLLQYVDDLLLGHP TAVGCAKRTDALLRHLEDCGY KVSKKK\AQICQQQVRYLGFTI RRGVRLGSEKQVICNLPEPKT
8921	39289	B	8980	209	2272	
8922	39290	B	8981	1	228	
8923	39291	C	8982	375	472	
8924	39292	C	8983	266	408	
8925	39293	A	8984	1	1105	

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8926	39294	A	8985	108	708	LTNQKKSRTTRRHSLPEVQGG AAADRHCPIDRLGSLQDHHRRS RLLSQWSP*KSTHD*HGFS\YQS AEDIRRKLLQQAEFAGMNTSEL LQIANQAFVNRDAVSRKENHR DNERQAQRNTDLLAAAIRGVPP KRQKGKGGPGKETQPGCQSLQR NQCA YCKEIGHWKNKCPQLKR KPGDSEQEAPDKDEGALLNLA EGLLD
8927	39295	A	8986	125	444	DCLAVKRASWVQPTGYSCPL L/QGVLTYYQRRQAAPPLRRER LASSSRDKPKCAGKHTSSLVRA GDMQGTIVTGTEVLRDMEPK FEDDQLRPVLEHKVPRREMA
8928	39296	C	8987	80	325	
8929	39297	A	8988	566	1857	
8930	39298	A	8989	1	1037	MEEGWIRLPDGRVAAPQLLGA AVVLAVQETTHRGQESLEKLL GRYFYISPLSALAKTVRQRDFA DFGTTIKQDFRLLGQTSVDRLL QLSQGQAVKGNQLLPVSLTSQ CQVYKCVWNWWVLGLTDFKN EAKELRLYKQEKREKAKRWKE TEKGFNGDYGVMTPTGKWRT YFEIDWSKLEVGWPSEGNLRS LVSKVWHKVTGKSGHSDQFPY IATWLQLVLDPPQWLRGQAAA VLVAKGQIPRKDPTPPAEGNQ LLK/SLFDPTSEDPLQEME/PSDP SGALPLPGKDAPHS*AHSPCAS TRQ TYP*ATRSRQERR*SLERNP YIGSSFKTQNWDTNAPERAVV
8931	39299	B	8990	1	2082	
8932	39300	A	8991	6	367	ENLNIKAPHAVVTLMTTTGPD WISNAILTKDFCLLCENTHISRW GCNTLNATLLLVSESPVKHNC LEVLDVYSSRPNLRDHP*TSV DWELYVDGSGFANPCKVTLKK ETSPAPVTPRS

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8933	39301	A	8992	1	2991	MLKNFKKGFNGDYGVMTMPG KLRTLCEIDWPTLEVGPSEGS LDRSLVSKVWHKVTGKSGHSD QFPYIDTWLPQWVRGQAAAVL VAKGQIVKEGSRSTHRGKSTPE VLFDPSTDDPLQEMAKVIPVVP SPYQGERLPTFESTVLVPPQDK HIPRPPRVDKRGGEASGETPPL AARLRPKTGIQMSLREQRYTGI DEDGHMAERRVFCQPFTSAD LLNWKNNTPSCTEKPQALIDLL QTIIQTHNPTWADCHQLL
8934	39302	A	8993	1	444	SSASTPETRAKFT*DNLCCASW QRLASANFRVLVDCILSDTFED LRLQCDVNLAFGRRC EELED ARYKLHHHLHKAVE*GGGAEH VPHRLREKLLEAEQSLRNLEDI HMSLEKDIAAMTNSLFIDRQKC MAHRTRYPTILQLAGYQ
8935	39303	A	8994	1	1576	MVQTDVLLPEPAPQTVSPCELP CKEYDVARNMGPGRHQLVW FQNCYARYHQAFADCNQSERE LQGRESQQLAAETQALAQPTQ QDSTCRVGERLQDTHSWKSEL QHEVEVLAETDLLLAQKQRL ERALDAMEVPFSIATDNMQCS QRHQHANLVRDYVETELLKAY PPAPSQCLKNCCSSRKPSACNK GACEVMETLTVQEEANPGTEG CRTRALAHKEEAEPINIQELLK RAIVQAVSQIQLNREHTEICEM DWLDKVEAYNLDETCGRHHSQ STERP/WTKFTQDNL CRAQRKR LSSANLWVLVDCILRDTSEDL GLQCDVNLAFGRRC EELEDA RHKLQHHLHKMLREITDQEHN VVALKEAIKDKKEPLHIAQTRL YLP SHRPNMQLCREAAQFRAA FPG*ESFQWRLPRTSLPAPNWE FWVPFHPSRCILLPSPAPAHTPP TPPSW*VRWRSLYKSITALREK LLQAEQSLRNLDIHMSLEKDV TAMTNSVFIDRQKCM AHRTCY PTILQLAGYQ
8936	39304	C	8995	99	442	

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8937	39305	A	8996	177	622	TESSASEKTTGEDGTRVFSLL RSLLSLLPSAPLRHHPPSA*LSL CSCVSD*AVALIPQSAHHFPNIS *PFPLHCFHAHAKPPVWIFHS/S LWLP*AFLAPMTSFTDQVAVD DFLSIVYLFTFTPFLAFCGEPST ALATREQVWVESAS
8938	39306	A	8997	1	329	AAARPGRGSETGDWVLLCYPG WSAVV*S*LTTA/SELLGSRG*G SLLSLPSSWDYRLSAPCLANSK KPSEK*GLSMLP*LVSNSWPQVI LLLGPPKALGLQAPGTMGLRP
8939	39307	A	8998	1	814	
8940	39308	A	8999	57	274	TASSSLTLVYGHRLCWLGPSHP *PSLWLP
8941	39309	A	9000	1	1236	
8942	39310	A	9001	1	1095	
8943	39311	A	9002	1	2313	
8944	39312	A	9003	166	494	FSQQLCGENHPLRTEQTAQR AGVPLGVRLSRPGFP*LSTHSC FSCPLV*PPSQGPGLSLWTLC SAIQAPAELESCRSSCDRDGRSH WPRVSGGLWLSQVPRPRR
8945	39313	A	9004	3	974	MGESPAV*GYFVLAMNSAGL SFGGGAGKYLAEMVHGYPSE NVWELDLKRFGALQSSRTFLR HRVMEVMPLMYDLKVPRWAF KTVSQLRTSLLYDRLDAQEAR WMEKHGFERPKYFVPPDKDLL ALEQSKTFYKPDWFDIVIESEV KCKK\EA\VCVIDMSSFTKFEITS TGD\QALEVLQYLF\SNLDVVPV GHIV\HTGMLNEGGEYENDCSI ARLNKRSFFMISPTDQQVHCW AWLKKH\MPKDSNLLLEDVTW KYTGTVRALYGDVEHESWLS CVRHAHHPDPICIAHTYLHLRS FSQADGREWRKVLDKHKIFLF ARSLC
8946	39314	A	9005	1	1872	
8947	39315	A	9006	1	2250	
8948	39316	A	9007	1	1257	
8949	39317	A	9008	1	1596	
8950	39318	A	9009	1	1584	
8951	39319	A	9010	1	1461	

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8952	39320	A	9011	110	993	TSTELSTPSQQNIHSSQHHIALV PKLTT*LERIKYLG IQLTRDVKD LFKQNYKPLL/NKIKEDTNKWK NIPCSWTGRINIVKMAILPKVIY RSSAIPKLPMTVFTELEKSTLK FIWNQKRAHIAKTILSQKNKTG GIMLLDFKLYYKATVTKTAWY WYQNRDIDQWNRTEPSEIIPHC NHLIFDKPDKNRKWGKDSL FN KWCRENWLAICRKLKLDPFLTP YTKINSRWIKDLNVRSKTIKTIE ENLGNTIQDIVMGKDFMAKTP KTMATEAKIDK WDLIKLRASA QQKKLPSE
8953	39321	A	9012	1	1185	
8954	39322	A	9013	1	185	
8955	39323	A	9014	2	1321	
8956	39324	A	9015	2	1757	
8957	39325	A	9016	1	1008	
8958	39326	A	9017	1	1311	
8959	39327	A	9018	1	1152	
8960	39328	A	9019	1	526	MPSLTTPIQHSVGS SGRAIRQEK EIKGIQLGREEVKLSLFADDMIV YLENPIISAQNLLKLISNFSK VSR YKINVQKSQAFLYTNNRQTESQ IMSELPFTIAKRIKYLGIQLTRD VKDLFKENYKPLL NKIKEDTNK WKNIPCSWVGRINIVKMATLPK MTWIANWLRNSLQAQ
8961	39329	B	9020	1	1626	
8962	39330	A	9021	1	2361	
8963	39331	A	9022	1	1140	
8964	39332	A	9023	1	2112	
8965	39333	B	9024	1	1065	
8966	39334	A	9025	1	1416	

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8967	39335	A	9026	1	1690	MPMVEELYGNYGIMADTTERV GQHKDAYQVILDGVKGGTKEK RLAAQFILKFFKHFTELADSAIN AHLQTVSGRQQLVKLVAEQAD LEQTFNPSDPECVGRLLQCTQQ AVPFFSKTVHSTRSVTYFCEQV LPNLGILTAVEGLDIQLEVLKL LVEMSSFCGDMKLETNLGKL FDKLL EYMPLPPEEAENGGNA GDEEPLQFSYVECLLYSFHQL GQKLPDFLTAKLNAEKLKDFKI RLQYFARGLQVYIRQLHLALQ VKQCFAQYMEKENGIDAKILN KILANRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHINRA KDKNHMIISIDAEKAFDKIQQPF MLKTLNKLGDGTYFKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLARAIQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMGKLPFTIA/S/KRIKYL GIQLTRDVKDLFKENYKPLLKE IKEDTNKWKNI PCSWVGRINIV KMAILPKNWKKLL
8968	39336	A	9027	1	1575	
8969	39337	A	9028	1	2682	
8970	39338	B	9029	1	2088	
8971	39339	A	9030	1	2406	
8972	39340	A	9031	1049	1500	
8973	39341	A	9032	1	4341	
8974	39342	A	9033	103	366	NHPQLKVAGLKNCCVCMCV CVC\CVCVRVWIWVCVCVCVC VCVCVC\CVCVCVCVCICVCI*V WVCVCVCLCLSLPKCWDYRHE PQRPA
8975	39343	A	9034	232	735	YLSGNGGEKGFCALPDHRLR VLHQHPHACVETDTVDLGITS ISLADVRVCVCMVCVCVCVCV RVWIWVCVCVCVCVCVCVC\C VCVC\CVCICVCI*VWVCVCVC\ CVCVCVCIC\CVCVCVCVCVC\ CICVCI*VCVCVYVCVCVCLCT VLGIHSFLTARNAHQPIGH
8976	39344	A	9035	163	795	

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8977	39345	A	9036	34	758	RVPHRHGMKRVVRQRHGMKRV PHRHEMKRVPHRHGMKRVPHR HGRKRVPHRHGRKRVPHRHGR KRVPAQVQDEEGHCQKPGRCV CMCVCVC\CVCVRVWVWVCVC VCVCVCVCVC\CVCVC\CVCIC VCI*VWVCVCVC\CVCVCVCIC\ CVCVCVCVCVC\CICVCI*VCVC VYVCVCVCLCLFYLVLCFICS/ CIISGGQRWC*RKTMCSLPFAH SHHSFPGHFFLIFQSRSFQVSFHP
8978	39346	B	9037	34	156	
8979	39347	A	9038	3	419	GGENVKAINQQTGAFVEISRQL/ PPN/GDPNFKLFIRG\SPE\QIDH AKQLIEEKIEVGWGGWGLWGFL TARIPAHLPWLLSFLLG\PLCTV G\PGPGGPGPAGPMGPFNPGPF NQGPPGAPPQ*VSSASWVLRP/E GLLSWQEE*QTPFPFP*KCRAG ALIAHFHCGYHQALSC/LPGR ACAFQHPSVHVQVSRLLSCPQA DAARPSSCFLSRPFGAPLSLVV WVSGASPLKNIPTGGPAA\PPP HHCSSIPFFSPA VPGGPLLTSTH PRAGAIPTPSGS/QPAPHDPK* WALQPGATRGSPVSVILCLLGF EAGGLLSWQEE
8980	39348	A	9039	1	445	ATADPNAAWADDY\SHYYQQP PG\PVPCPAPAPAAPPAQGEPPQ PPPTGQSDYTEWAWEEYYKKI GQQPQQPGAPPQQDYTKAWEL EYYKKQAQVA\TGGG\PGAPP SQPDYS\AAWAEYYRQQAAYY GQTPGP\GGPQPPPTQQ\GQQQA

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8981	39349	A	9040	38	1297	TCVSALSVLASDDGTGPEKIAHI MGPPDRCEHAARIINDLLQSLR VGGPGC*RGWQGLQGSARPDR LPGFIILLLLLSCRVVPQGPPAGG PGMPPGGRRPKEEGQGNWGPSP WAGKMTFSIPTHKCGLVIGRGG ENVKAINQ\QRGA\FVEICRQLPP NGTANFKLFII\RGSP\QQIDHA KQLNE\EKMKGPLCPVGP GPGG PGPAGPMGPFNPG\PFNQGP PG APPHAKK\PPPHQYPPQGCNT YPQWQQHAPHDPSISAGKAAA AAADPNAAW/AAYYSHYYQQP PGPVP/GPAPAPAAPPAQGGQP Q/QPGAPPQQDYTKAWE EY/YK KQAQV/ATG/GGPGAPPGSQPD YS/AAWAEYYRQQAAYYGQ/T PGPGGPQPPPTQQGQQQWVA PETPSRGVPLMPAAGAVWPE VPGVPTHRQGSIRWVQR
8982	39350	A	9041	1	1777	MPVLPVTATEIRQYLRGHGIPF QDGHSLCLRALSPFAESSQLKGQ TGVTTSFSLFIDKTTGHFLCMTS LAEGSWEDFQASVEGRGDGAR EGFLLSKAPEFEDSEEVRIWN RAIPLWELPDQEEVQLADTMFG LTKVTDDTLKRFSVRYLRPARS LVFPWFSPGGGLRGLKLEAK CQGDGVSYEETTIPRPSAYHNL FGLPLISRRDAEVVLT SRELDL ALNQSTGLPTLTLPRGTTCLPPA LLPYLEQFRRIVFWLGDDLRSW EAAKLFARKLNPKRCFLVRPGD QQPRPLEALNGGFNLSRILRTA LPAWHKSIVSFRQLREEVLGEL SNVEQAAGLRWSRFPDLNRILK GHRKGELTVFTGPTGSGKTTFIS EYALDLCSQGVNTLWGSFEISN VRLARVMLTQFAEGRLEDQLD KYDHWADRFDLPLYFMTFHG QQNIRTVIGTM\NHAVYVYDIC HVIIDNLQFMMGHEQLSTDRIA AQDYIIGVFRKFATDNNCHVTL VIHPRKEDDDKELQTASIFGSA KGGEWSAPHSTSSRPSAQPKSD STVAEAAPLASDFTAYWIWFLT WGRGRASRDREFGYLAALN

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8983	39351	A	9042	3	679	SPLIVSSARMHAGRDLPYFMT FHGQQSIRTVIDTMQHA\VYG\Y DICHVIIDNLQFMMGHEQLSTD RIAAQDYIIGVFRKFATDNNCH VTLVIHPRKEDDDKELQTASIF GLSQRQARIEADNVLDPA GTGK LGNRGQGKRYFAGVPKEPF*W EM*GVFPLEFNKNSLTF SIPPKN KARLKKIKDDTGPVAKKPSSGK KGATTQNSEICSGQAPTDPDQPD TSKR SK
8984	39352	A	9043	90	317	GTLRKRYRAFHCRTIFKALTEV CKNFSALHCEFSWGFFFFCSFFF LASS*G*NCLPSQPQPCWFLQPP CPWQIL
8985	39353	A	9044	2	2136	PRLSSVLSEFITTHIYFLLSETTY NYEWNLISLYVVDPSRLAC*TV QLFFMLQLSVGLYVFNVGNDIC LHKMGSVTVLFFVTARRVNLPP VAVIKLMSSSSCISFLSLFLNLV ESTDDTEIVSYHWEEINGPFIEE KTYLCFFTF LFCVFIFVFAIT*G VQTPYLHLSAMQEGDYTFQLT GLQT*CKEILFHTVSVIPENNR PVAVAGPDKELIFPVESATCLS YSKPHAPSLMLTTSMFYRGPSA VEMENIDKAIATVTGLQVGTY HFRFYSITGVNLQSLCFHFAIFD LENNSPRARAGGRHVLVLPN NSITLDGSRSKPRNWDPRIDSC PVIRVLSQDVIDGSDHSVALQL TNLVEGVYTFHFLML*SLCKCP SANPVSSSPDPRKSGLVELTLQ VGVGQLTEQRKDTLVRQLAVG VSW*SPSDHVAVL SHCLHSTV IVFYVQSRPPFKVLKAAEVARN LHIS*SRDSLFCMLPSALHTS/S AGCLLKCSGHGHCDPLTKRCI* K*SWSTNSL*LCPLWFSCVSEW SIFYVTVLKS*LSVTFLKI*VELF IVPFRQKRTKIRKKT LNMV*VH LKYFTH*ILILPIAVRGMCDNDYP HD*QLEVNHGVP PQMLLCFSLG IKHRSTEHNSSLMVSESVRSFD RDCLQSLNYLLSGLLQKEKNLQ KAGLTSPAPSLWEDKCSGRTEH AQSARLPLKEDTEKTLMQF
8986	39354	A	9045	47	157	FDKICIFKRQVTKSEVILNLTN* VL*YLEYHIRNIN
8987	39355	A	9046	1	393	
8988	39356	C	9047	274	357	

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8989	39357	A	9048	727	1089	
8990	39358	A	9049	175	608	CGWEYGN* AIDTMDEQYCKVC QAYKAPRSHHCTKNCNTCVMK MDHHCPWINNCCGYQNHASFT LILLAPLGCIIHAAFIVMTMYT QLYSFGMENNFFRKQNFYLSS WDWKEEGLKDPDFSIIQLGWK SFVFFHMDMGEVDGEGTF
8991	39359	B	9050	780	1166	
8992	39360	A	9051	3	681	HIRGPRYSGHHSAFGCPYSDMN LKKEATLHDLRLREQTQANLES DSSHKSLSLCSLNFGKHEKV NSQPRLVQQAACKLKIKGKEDID LDNLFREYSVEQAQQVLHQS SMSTVSAHPFRDLPLGREQHCK LLPGVADIRASQVARWTVDEV AEFVQSLLGCEEHAKCFKKEQI DGKAFLLLTQTDIVKVMKIKLG PALKIYNSILMFRHSQELPEEDI ASGQEV RG
8993	39361	A	9052	30	981	TQDPWPSPVLPVLSRASSDPAAG HRAEHI*TYWPWKLEGTDIWL VLYMPLVQPDNFIKKHSHLPTY CLFKEDVKFPFRTCRLTYCWLN YTEEITYLHTKKVSVGQSAVRE EFAAACTWSIRIGEKLAILLSLY LCRQQALLNMRMSVPIHESGV AQRSPVMDKLAQYSVEQAQQV LHQSVMSTVSAHPFRDLPLGR EQHCKLLPGVADIRARQVARW TVDENLHGLIQTKQTPHLDESIS KGESPALVVTELRMCMTATEP LVPTKNPYQERGHIGDSFLHYT DQEPQPWDQSSVHPTAPIYSV SSGFRVTRGSDI
8994	39362	A	9053	1	864	MVSALPEVGRAQILRLIAYIRSP APPVVGVERAARRPAQAFGLV ALPSTDATVFANQPLARACIGA ARHREPDAPGQSAWVGEECLK DALRSPETPKLGSLSPPCQDTRP GRASNDFSLEMGYSSLSAARLK IHGQVFQCCGPGPLRTLHWTQ S*TYLNILALET*GAQNP*EW QAVD*GAPGLFSHTLGVFPR/RL PQHPKQIICFQNYEYSVEQAQQ VLHQSVMSTVSAHPFRDLPLG REQHCKLLPGVADIRASQVAR WTVDEPYSSAPRGPELSAGANS SRGA

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8995	39363	A	9054	1	1737	MKEKPAVEVRLDKWLWAARF YKTRALAREMIEGGKVHYNGQ RSKPSKIVELNATLTLRQGNDE RTVIVKAITEQRRPASEAALLYE ETAESVEKREKMALAQMIMPQ HDQLHRYLFENFAVRGELVTV SETLQQILENHDYPQPVKNVLA ELLVATSLLTATLKFDDITVQ LQGDGPMNLAVINEINERAQNP LLCAFRVCNTYGSYECKCPVG YVLREDRRMCKAVFPYCQNES SDVLWQFDSTSQIFLKGTPKTT VRRGGEHNLKNPDECEDNPNIC DGGQCAGIPGRNRCLCYDGFM ASEDMKTCVDIDECSLPNICVF GTCHNLPGLFRCECEIGYELDR SGGNCTEDPDHSKSRSGRSQND WGRRRKT/S*KRSAVYR*RQLY IRRQPYAERPSLR*RQRP*IPCIR SQHGNRKRMRRRRIFI/STKRTT AAARTSSVKKARSFSRALKNA MLS*RTAPSVS*S*IMITH*KK** SR*SLQTR*LMKSSARVFSK*TA NGTWSL/HSRGSKVTDIGINSND IYMLGYVSNSLTGPYRPVDKTG LGLEMGLDPNDVTLTYSHFRVP EAEAAMWVSHAT

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8996	39364	A	9055	1	1743	MTTSTMTHMMTMHFPIIVCAD SRDDVDVTNDVNDHDDSAKR KSHRERPIAAKRTETK/KRRRRA RPKR/RTKARS*SAK*QTAQHT RTTAAIIMRDTQARRV*RPTKH AAEQRQNTTGKQRR*TKRVKA AKKEGE*RRRKMARRTTPQTR R*TRAKRRINRPRHGAKKRA*N /RRLKSAPKRHRVNRRDENART TTRHKKRRNRRVKRAERSGAE RTPYKQRHQQTREKRTCKRRQ TK/RTKAK*T*RDHENDGTRA YNKTPKKA AKRTRNNLRJHNA TKGGDNRGQTRRA*TKPRKYR PDENRYNTSSPERTPRKRRGKS E/RRDKTAQRAQ*ADRYNSRKT QURL*KGHTHTER*RQARMHT RHAQNLDQHQSTRLCNA*ST/C HDRRSSSTMCHRYDQLYSRSH ALTMIIVNKPLRQCIRMLSFHD RHRSLAIDGDSASTGSPAFCV NTYGSYECKCPVGYVLREDRR MCKDTCTEKAFPPAGGCEVDKT HTVPQERAYIHRTRLGRARTKK RDLYRRAHNDRRRQKSAAYYE STSVRAHKYNSGKSDTQNGS HHRQKLRYGDAGKSHYLQY NIHFMYPLFNT
8997	39365	A	9056	3	451	FFEMKSHSVAQAGVQCSGVILA HCNLHLLESSDSPASAFRVAGII DARPHAWLIFVFLVETGFHHVG QAGLELLS*VIHPPWPPKVLRL QHETPCPAVSLYLNQSPENNLE EDSLAMSNRRRSKGPPIWQNP GFEILALSTFLVESDLK
8998	39366	A	9057	53	343	
8999	39367	A	9058	14	234	CLFIRIFNVICYSKTCKNSIC\IGV IEIVIDGCMCGGEDGGGGGGSV TAGGAPSPIETGSHGPPQPAVYF WRF

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9000	39368	A	9059	3	865	INFSVCVLARFFLGVVVLCVSC CWFRVCACVCALAFPCSCC VVVLCVPVGCRICLFAV/CCCL/ CVCALFCGFLRLFLCLCV/CPC S/CSARCRC/VCLALGAVVCFPP CSVVASCGCCDWVWLCCGAV VALVGLLCCVLVCAWSFRCG/C V/CLC/VCVVVVLVVRCC/VCW CGSCVVDCAGVVLVCCALLVVL MMSL/CGCRVYSWYGVCWVCS VVCRRIDL/CPCCLCW/CVT*RG CWSVWCM/CTCCG/CVCGLA V MICWCRCVVRLVCLCAV*FIC ACVCFECAVGGFVGGCFLGSCL
9001	39369	A	9060	1606	1849	QGVASALCREAGLTKISPGAPL WLPCSPGVTAECSGERTVRHN VTDRVCGVLGAVTSPGRN*RG HVTHKFCILCTDTRDC
9002	39370	A	9061	2	682	ALEAVFGKYGQIVEVHLMKDC ETNKSRGFAFITFERPADAKDA ARDMNGKSLDGKAIKVEQATK PSFESGRRGPPPPRSRGPPRVL RGGRRGSGGTREPPSRGGHMD D/SGRDSYRGPPRESLPSCR/D APPTRG/PPPSYGGSSRYDDYSS SRDGYGGSRDYSSSRSDLYSS GRDQVGRQERGLPPSMERGY PPRDSYSSSRGTTPRGGRGGS RSDRGGGRSRY
9003	39371	A	9062	90	443	NVVIQFIVLPYLTIDPAGNSR SAPPTRGPPPSYGGSSRYDDYSS SRDGYG*SRDSYSSSRSDLYSS DRIVSTLFFVSLNWDGPKFCLF LVSASASPSIRSASSRASTSWCS AA
9004	39372	B	9063	12	1373	
9005	39373	A	9064	2	206	

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9006	39374	A	9065	2	1423	IHFREMASKSWLNFLTFLCGSAI GFLLCSQLFSILLGEKVDTPQNV LHNDPHARHSDDNQGNHLEGQ MNFNADSSQHKDENTDIAEKL EEKVRILCWVMTGPQ\NLEKKA KHVKATWAQRCNKVLFMSSEE NKDFPAVGLKTKEGRDQLYWK TIKAFQYVHEHYL*DADWFLK ADDDTYVILDNLRWLLSKYDP EETIYFGRRFKPYVKQGYMSGG AGYVLSKEALKRFVDAFKTDK CTHSSSIEDLALGRCEIMNVE AGDSRDTIGKGNFFHFPV\PEH HFNKGYLPRTFWYWNYNYY PVEGGELRFLSTVTIRHSKALS LGVAQCSWLLKQQVISDDKTK RPDFPDRSRIMKERVQIVLYES GQAPVESSPPLPGYCSALFATCF QVTKGNFSDPTQAILYTQADK IEGWMRASGERVAEQSGQTA MDGGKKEAEWKTRKAKYRD DVCSKHHPYPTPVPPSLED
9007	39375	A	9066	1	311	
9008	39376	A	9067	1	493	ITRQHMRKAVPFQVPRKEILKL LKGKVVVGHALHNDQALK*S TLGARPGDTTYVPNLFSEPLH TRARVSLKDLALQLLHKKIQVG QHGHSSVEDATTAMELYRLVE VQWEQQEARSLWTCPEDREPD SSTDMEQYMEDQYWPDDLAH GSRGGAREAQDRRN
9009	39377	A	9068	45	365	NQAAASRPHCAARTMAGEEQA ACVHEDRTQCRGDKAAPQAAH LCGPGRGSGSVSTAPRAR*CPV CSSCPGPGAPEDTPEEVDVGAA SAHRSPRLCCSHLTHRWPKH

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9010	39378	A	9069	3	1687	ICVPKSVPSFLWAGRGPHCLLP CGSSSP*SGGLARA*GVFQGRA GVARAPSHLSFHNSPCVWSLST CCRAGSQDGPCPHAAGQGPGK QTSSGTGASSPWTSCL*KSLPK \VCS*GLETTIGRGRVKPIKVT TAQ*CAASVTAPLLSS*LQDGG STAKVTRCT/TAGGRAVYGTA GKAFPEAPELTCRS/ALAALGT WPLPPLQVSCGLRNPSDLPSV VGSRAV*TKSGSSPAKVWPLA EWFKSGSA/PVTGQEA WLLWA SDSSSELSLCPRKHAAPPHSAEH RQISQGLASSCWGAGGDKVVS ASMVGSA PGQCPMSALMTGSA SGQCPGHPCWSGTNADS*GRDP HRASRLALPTASYEQ*QPHW GSWTAHGQNGLGIFFQVSWF V*GQTMVSRPRISGLGQPVCLS AASPQAAPLGSHDPTPAGR*GL EPGGRQPSSS*IYVWEAPPGLW VPPGPFLSH*SWRFGRTKAAPL KEPRPGGRCPGDRPSRAEAGL PQTRKPALPAIGR/PKKACSLRR PRVILEQSSQHAAAALSSWMQP ALLETGGKAVFFTPGGL

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9011	39379	A	9070	66	1956	PLLAIPAHSTFPARKPEEPPRPD* LCPHIHCAAV*GEIRTVP/SKTV RGVATRTRPRSSASSLGTITGLR VSSVRRVQLSIKPGCSRVENESS NSPCSSSQPGT\SVLPCPTVCRE AGP/AGP*PPG*ALSLPAAGFTT ATEWKQSQLSSGG*THSGEDM GRATAATEKAQEQCMLREKL GTRQKAESGSRGAVAGLQHFCS APRTAWQPRASRA/RAGVRAW PCADPM*PPSHSPSPKPFIPAA/ PGAQTLGAAGVEHVAGSARIPC CRTGLE/PHPHSPRRTLERQARI SGAGRRSSPNAATGARPRPAAG SPVSARRAPRRRPA*SSPCSGPW TAVSAPRSPGPRGGGRPPSPGR RRPCCSVFSGGASPSSARVSSPS GSCSASPPAAPAGASGAVVA GPVVGSPREHGG*LRPPLPRLG VPGLLAARTSGAEVIHEQAAAQ GTAADTPGAPGLLLAPAAAGA V/TRPGPPGASGCPRPAPRPPTP ASRSGRPVPGGGRGRRGGRGA GGEALQGAVVGGQVGGSGAL A/ATARGSPAAGVSRWTAPRCR HRRSDASASGTPARFPAGARKG RTLWQ*SWRSAPPPGLSELL*G LPRPLPESGRSKAPLPSGSTPLPS GRTPLPSGRSPSTRRSPS
9012	39380	A	9071	95	1423	GLENKRAKGTEAHTRACP*GK STEQDTTWTNTGRNEQQGPRP KGEQTQRKTERKPGRERQVQV LSSPPGRWC*DVGPLGGLPSRA KAEAAALTAQKAQGRRGSPGS LPKSSPLPSAPGKR/TPPRGHLL VPLSPYYPALLSQHPPQGPPCG ASAPPSALLQRAPPGTRTL\QR PPGPRVTCGTT/MAAKAKSQS NAPRGSLKKSNSFYNIPLKQV SCLITISKHSRNEVSVYQTSRPR AAATDVPRT\PSLSVGCSWSCT RGHWPSSCCPTAPRGQGL*EHS QGPGSRSKLPWPTGPCGGLTPS CWSLAGSAGERVDLNQAAASR PHCAARTMAGKTLGGCGCVD VGAASAHRSPRLRCTTSPTDGP NTERGSRKTGWTPGPPGFWPCP RPPTSNTTTPGLMDSARPGKA PAPFTDFRTPSGLLLPGWAVRA RREEDGCG

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9013	39381	A	9072	42	380	LGAPCTPPRSAPRTGRPEYA*A RG*PVGDLCRGPEAVVSTQVLL PRGLQ*NFAVLLQLMSCATPPP NCALKGCV*VPLEQSPFFHQAV ACREWKRKGKGMVCGGNASPO RTEA
9014	39382	B	9073	116	341	
9015	39383	B	9074	52	190	
9016	39384	B	9075	70	310	
9017	39385	A	9076	1349	2456	HCSVPGAEPWRKPPAQICPQLT SRPHLSSPRSLSPGCGHSPGPG* SPQPPVMSLHEGPPRGPQV/PSP VANPQPKPWLLRSVDLPVPH LPTVDRTTSL/APSLQSDV/PAPS GAL*PSGRACSGV/PPID*APEA ALSAAAPRPSLGSGQNASGLPA ASLPPQDSSQPHKTVSPARSVP PLGAQARAAPPRLWCPHALVS G*EASPEAVSVAAGPPVPGPTPS TSGSTASHSRRC*SPR*TPAPP RRDHGRSAAFEVLAAAASAQP CASQGGPRPTGAGRTPSPLGLP FSRGPPAASARPFCHRPSL*FSW *SSPSGLSLSDTPHSRRPLGPV CGLRAPCPPQIPACRVPAHSQ RWPGSSSRSCRCQCC
9018	39386	A	9077	462	739	ACEPMVLFCLLALLQLDLFLGS YPRVLAAFDIQVFFLGTSRDM* NTG\LEYFMLNSWLWLLNRL*S WGELCHFIPLHSPVKRGLNFYL QEFFI
9019	39387	A	9078	1	678	GTRVNMILMKMGFSGIVVHQE SVCATYGSGLSSTCIVDVGQK TSVCCVEDGVSHRNTRLCLAY GGSDVSRFCFYWLMQRAGFPYR ECQLTNKMDWLLQLHL/KRNF LSFRSRTSLGFRMTSFRFRHPDS PALLYQFRLGDEKLQAPMALF YPATFWICWTGK*RPLHTDLRA ILKILTMNITCWPBKAHENSLQ KLLLTESLHPNLLDLKGIFVASP LIFQKDSIPR

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9020	39388	A	9079	227	1980	GERLRYGV TENGKEKGGEKEK EQRGVKRPIVPALVPESLQEQIQ SNFIIVIHPGSTTLRIGRATDTLP ASIPHVIAARRHKQQGQPLYKDR WLLREGLNKPESENEQRLNGLIM VDQAIWSNKMSNGTRRNPVSP EQARSYNKQMRPAILDHCSGN KWTNTSHHPEYLVGEEALYVN PLDCYNIHWPIRRGQLNIHPGP GGSLTAVLADIEVIWSHAIQKY LEIPLKDLKYRWILVIPDIYNK QHVKELVNMILMKMGFSGIVV HQUESVCATYGSGLSSTCIVDVG DQKTSVCCVEDGVSHRNTRIFS WRSGHLWVQDHEFQIRHPDSP ALLYQFRLEDEKLQAPMALFYP ATFGIVGQKMTTLQHR/LRAILR ILTMNITCWPHRANKNSLQKLL LTESLHPNLFEFERGF LWASPLI FQKDSIPRR*IWGLHREMA*WP ATIPRRPLTALMSRKTAISLFEG KALGLG*SPSSIAIDCCSSDDTK KKMYSSILVVG GGFDFVIKASR IFCSTEFSTKCPPSLQADYLKM WM*SQGLKDMDPRLIAWKGG AVLACLDTTQELWIYQREWQR FGVRMLRERAAFW
9021	39389	A	9080	1	756	MRRIVALVETGEQPFGAATVGS RFGCLEDLGTDQRRHDEMA AAHTYFIGDGDTLTEDEDEDT WGMAKGHHAINIEGFKLARVE DEM QFQEREPEKVKIRGRTRGY TFIMLAALAAAEADMQVGEE L/C*KVSLKASQLGQMALMLQS VTVQIGMVYGLPACGAQVNLQ DDKGSMLV/MCASKHGHMEIK LLLAQLGCNVHLQDNDGSTML SIALEVGHKGITVLLYAHISFAK AQSPGTPRLGMKPQSF
9022	39390	B	9081	5	5440	

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9023	39391	A	9082	1	4294	WAVFDGNYYYLPPWAHTKPV VTLSYWEDISHRLDAVNALLA MAERLQTNIEALKSGIQGKIPA NQLAELWLKLIDEVIEDTRYTL PLTEGKANVTVLDTQIRKLRSR SLSQIHEAAVRMRSEATDVKST LAEIEDWLDKLMQLTEEPQNS MPDIIIWMIRGEKRLAYARIPAH QVLYSTSGENASGKYCGKTQTI FLKYPQEKNNGPVVELRVNI WLGLSAVEKKFNSFAEGTFTVF AEMYENQALMFGKWG
9024	39392	B	9083	1	339	
9025	39393	A	9084	2	1767	KLYRGKSDENEDPSVVGEFKGS FRIYPLPDDPSVPAPPRQFREL DSVPQECTVRIYIVRGLELQPQ DNNGLCDPYIKITLGKKVIE\DR DHYIPNTLNPVFGRMYLESCYL PQEKDLKISVYDYDTFTRDEKV GETIIDLENRFLSRFGSHCGIPEE YCVSGVNTWRDSL\PTQALLQ NVARFKGFPQPILSEDGSRIRYG GRDYSLDEFEANKILHQHLGAP EERLALHILRTQGLVPE\HVET RTLHSTFQPNISQGKT/LQMWG GMFFPKSLG\PPGPPF\NITPRKA KKYYLRVWNTKDVILDEKSIT GEEMSDIYVKG\WIPGNEENKQ KTDVHYRSLDGEGNFWRFVF PFDYLPAEQLCIVAKKEHFWSI DQTEFRIPPR\LIQIW\DNDFKS\ LDDYLGFPRTLTCRHTIHFLOK SPGGNCRVWT*FPGPSKAMNPL KAKTASLFEQKSMKGWWPCY AEKDGARVMAGKVEMTLEILN EKEADERPAGKGRDEPNMNP LDLPNRPETSFLWFTNP\CKTM K\FIVWRRFKWVIGLLFLLILL LFVGRAPLTLLPNYFVQWKIVK PNVLTGKGFISRVIIQQ
9026	39394	A	9085	2	407	

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9027	39395	A	9086	15	759	SARPSHDYSHYYGTIEYLCYKI LGDIIENSRIVLQINNACLAADD F*TKYEREQT/LA/RTDLEMQTE GLKEELAYLKKNHEGEINALRG QVGGQISVEVDSALGADATNIL SDMQSQYENRKDAERWFTSCT EELNWEVVGHMEQLQMNRSQ VTDLRCNLQGLEIELQWQLSM KAALEARFGPQLAQIQAIISSIE AQLGDVRADSERQNEYQLLM DIKLWLEQELATYLSLLEGQEE HYNLSLSTSKIL
9028	39396	A	9087	3	2026	AGPWDRMGAMGSLVGGDLGL VWGCAGEGFAGIPFSPCALTQC EGNQGTRAKWVQTSTRILKGQ VKQARGAQVTPYSPLWHGKLG RAAPTFNAPGRWLLPLLLPPPL L*ITTCLLGKRTLQEALSLKLQE LRKVCLQEAVRAWP*GYQAGR LGGGEELGPLGRPPTARAYPPP HPNQAHHSLCPAEV/MQMGVE SKRVGRGDRYRGVARR\MALA PDLSTEQRRRRRQVQADALRRL HELEEQLRDVRARLGLPVLPLP QPLPLSTGSVITTQGVCLGMRL AQLSQGEHPLVRVGEWTLANG RGRAGMGDSYPPNLPTPTSL* PIPFIHVPVSGGSPERRTPWKPPPS DLYGDLKSRNSVASPTR*E*A PPPLRRSWEWDSKPGAEGPAS DRASLFVARTRRSNSSEALLVD RAAGGGAGSPAPLAPSASGPP VCKSSEVLYERPQPTPAFSSRTA GPPDPPRAARPSSAAPASRGAP RLPPVCGDFLLDYSLDRLPRS GGGTGWGELPPAAEVPGLSR RDGLLTMLPGPPPVAADSNSP LLRTKDPHTRATRTKPCGLPPE AAEGPEVHPNPLLWMPPTTRIP SAGERSGHKNLALEGLRDWYI RNSGLAAGPQRRPVLPSVGPPH PPFLHARCYEVGQALYGAPSQ APLPHSRSFTAPPVSGRYGGCF
9029	39397	A	9088	1	136	
9030	39398	A	9089	14	310	TFLFIYFFFTETESHSLVPRLECS GVISAHCNHLHLLGSNNATSAS *VAVITGACHHAWLIFVFLVEA GFCHVG/RRLVSNS*PQVIRLPW PPKVLGLQA
9031	39399	A	9090	1	436	
9032	39400	C	9091	75	410	

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9033	39401	A	9092	1	6691	MVNTYREVKEGPVILEDV LIEV FRTLYSQCKAELDLQTEPPFSK DHAQLSSKLRENKKTAEIKTA NLLFNSFEPYYMW DYVARWFE ECCRRTLHVRLQIGPGDSNDSS ELQLTNFCLLVDFLLDIVSLETY IEIQTEHLPQLLLRMISALTSHL QTLHLSELTD SLRLCSKILSKVQ PPLLSASTGGVLQFPGSQNN SV KEWEDKKVSSVSHENPTEVFE DGENPPSSRSSES GFTEFIQYQA DRTDDIDRELS
9034	39402	A	9093	293	687	PTAKVYIFSIFLTYHIVCCINTSS LFGFLQKNPEEDNSGR TLGWE PGHLLALTICTVRSMEQLLPFFN VLSQVFNSKVT SRCGGHSGSPI LYSNAFPNKDMKLENHKPCSS KARQKIEEMVEKDFLEGMIKT
9035	39403	A	9094	3	4173	IPMVVSDFDLPDQQIEILQSSDS GCSQSSAGDNLSYEVD PETVNA QEDSQMPKESSPDDDVQQVVF DLICKVVS GLEVESASVTSQLEI EAMPPKCS DIDPDEETIKIEDDSI QQSQNALLSNESSQFLSVSAEG GHECVANGISRNSSSPCISGTTH TLHDSSVASIETKSRQRSHSSIQ FSFKEKLSEKVSEKETIVKESGK QPGAKPKVKLARKKDDDKKKS SNEKLKQTSVFFSDGLDLENW YSCGEGDIS
9036	39404	A	9095	5	1055	FDLVRNLT YMVTRREKIKRS VCKVQE QIFNLYTKLLEQERVS GVPSSCSSSLENMLLFNSPSVG PDAPKIEDLKW/PFCISSENK WV LPWVSFG*KRPIKSRILLQN*PW K*RQNPAEAARPVW*KGGDGG PRELFGFRKDL CRSTSHISTTEK WCGDARPWEKKRQS FSL*SH*R RLKGRIF*TESQAS/PGPQM CPR GIWTTQELPPPLEWGSQHLGTR KEIVPKCNGSLIKVNYNQTA VK VPTTPASPVKNWGGFRIPKKGE RQQ/PGRGPRWGLPPALRLPIFG LRPSS\TKERAKSKLKSDNEND GYVPDVEMSDSESEASEKKCIH TSSTISRRTDIIRRSILAS

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9037	39405	A	9096	3	1136	FDIPFPKIGKLIKSNVPELRGHFP LSITLVLRMLLASKGDDPEDA KAKVLSVLKHSLLSFKQPRVM DMLKLYFLFSLQFLGGKRAI*IQ EG*SYGVCWDLVFTFGIYPWNL SNLVFVSFLVNGLFHDLQCQPTR KGSKHFSQDVMKLVVLVLAHL FGRRYFPKFKQDAHFEFYQSKV FLDDLPEDFS DALDEYNMKIME DFTTFLRIVSKLADMNQEYQLP LSKIKFTGKECEDSQLVSHLMS CKEGRVAISPFVCLSGNFDDDL LRLETPNHVTLGTIGVNRSQAP VLLSQKFDNRGRKMSLNAYAL DFYKHGSLIGLVQDNRMNEGD AAYLLKDFALTIKSISVSL/HVT YCENEDDNVVLAFEQLSTTFW
9038	39406	A	9097	2	522	
9039	39407	A	9098	3	1080	FLLPFSHQSKKENS DQMLTFLT SFNSLHSAMESFFQATGNSTNL ADDGKRRTVVTPTVILTKIDGVN VDTHHIPVNVTLRRIAHGADAV AARWDFDLLNGQGGWKSDGC HILYSDENITTIQCYSLSNYAVL MDLTGSELYTQAASLLHPVVY TTAILVLCLLAVIVSYIYHSLI RISLKS WHMLVNL CFHIFLTCV VFVGGITQTRNASICQAVGILH YSTLATVLWVGVTARNIYKQG H*KS*KMPRIPEP/RTFNQDQW LRFYPLVGGYPPSLVLRA*LA AANIKELRQSAKPHY/WLGW HGNPPWEAFYGPASFSTFVNC MYFLSIFIQLKRHPERKYELKEP TGQQQRLACQ
9040	39408	A	9099	1	307	
9041	39409	A	9100	2	286	

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9042	39410	A	9101	35	1211	EKDLLWEEKFPDRTTVTELPQT SHVSFSEPDISSKSTELPVDWSI KTRLLFTSSQPFTWADHLKAQE EAQGLVQHCRATEVTLPKSIQD PKLSSELRCTFQQSLIYWLHPAL SWLPLFPRIGADRK MAGKTSP WSNDATLQHVLMSDWA VSFTS LYNLLK\KNFSPYFYVCTYQFT VLFRAAGLAGSDLITALISPTTR GLREAMRNEGIEFSLPLIKESGH KKETASGTS LGYGEYVIKITL/S SSTD LWTHEIDLHRNSL*NRDS NCSNF/LREQAISDEDEEESFSW LEEMGVQDKIKKPDILSIKLRKE KHEVQMDHRPESVVLVKGINT FTLLNFLINSKSLVATSGPQAGL PPTLLSPVAFRGATMQLKARS VNVKTQALSGIQRPI
9043	39411	C	9102	48	464	
9044	39412	A	9103	1	140	MNRLKKEWMLEHIVENNSGM ESQDIKGHFHAADKDLLEMGY LQKRGLIGLTVLHGWWGLTIM AEG*KRSGCLSTLWKITPAWNL KTLKAIFMLLIKTYLKWAIYKR
9045	39413	B	9104	1289	2767	
9046	39414	A	9105	3	1278	INNTNTFRVLPHPSFVYTAKFHP AVRELVVTGCYDSMIRIWKVE MREDSAILVRQFDVHKSFINSL CFDTEGHHMYS GDCTGVIVVW NTYVKINDLEHSVHHWTINKEI KETEFKGIPISYLEIHPNGKRLLI HTKDSTLRIMDLRILVARKFVG AANYPGEDS*YFD/VH/GGTFLF AGSEDGIVYVWNPETGEQVAM YSDL PFKSPIRDISYHPFENMVA FCAFGQNEPILLYIYDFHVAQQ EAEMFKRYNGTFPLPGIHQSQD ALCTCPKLPHQGSFQIDEFVHT ESSSTKMQLVNQRLETVTEVIR SCAAKVNKNLSFTWPPAVSSQ QSKLKQSNMLTAQEILHQFGFT QTGIISIERKPCNHQVDTAPT VV ALYDYTANRSEDTIHRGDIIRV FFKDNE DWWYGCQHRERGQEG

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9047	39415	A	9106	1	1249	MAVLIFLGCLLGGAIGLPIAWA LLLCGAALMFWLD MF DVQIMA QTLVNGADSFSLAIPFFVLAGE IMNAGGLSKRIVDLPMKLVGH KPGGLGYVGVLAAMIMASLSG SAVADTAAVAALLVPMMSA NYPVNRAAGLIASGGIIAPIPPSI PFIIFGVSSGLSISKLFMAGIAPG MMMGA TLTLGKRARFTEDDTR ERDAISVINHQRNAVLIRQVRK LQQLFVIRVLAMRIFVYGSRLH KQGN SHWMTNAQLLGDFSIDN YQLYSLGHYPGAVPGNGTVHG EVYRIDNATLAELD ALRTRGGE YARQLIQTPYGS AWMYVYQRP VDGLKLIESGDWRVLRWLRVH SIDVPDPIFGLTVTGDR TDRA G KTSPAQAGCKLFLTNPLGIGVL TTAEKKSLLKPEHQGLATEVM CRMNIAGASFANIEGVKAMTD VTGFGLLGHLSEMCQGAGVQA RVDYEAIPKLP GVEEYIKLGAV PGGTERNFASYGHLWLR*LAL AP/LEVVEANGSL*CSGERGCL YGQTTTIQLNFRPAFCPEHAIAG QKVAILRLNMQIDIKRVSSRTH GNHFTNFKFTVQHYRSCLT

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9048	39416	A	9107	162	2106	KMSKCLKIAVSDSCPDCFTTQRE CIYINESRNIDVAAIVLSLNDVT CGKLDEIDATGYGIPVFIATENQ ERVPAEYLPRISGVFENCESRRE FYGRQLETAASHYETQLRPPFF RALVDYVNQGNsafDCPGHQG GEFFRRHPAGNQFVEYFGAVPC RLVIPALKKQRKLSDETAIVV VDRFSGEVRAMVGGSEPQFAG YNRAMQARRSIGSLAKPATYLT ALSQPKIYRLNTWIADAPIALR QPNGQ\ESVRVMLVDALTRSM NVPTVNLGMALGLPAVTETWI KLGVP\KDQLHPVPAMLLGALN LTPIEVAQAFQTIASGGNRA\PL SALR*TIAEHGKELYQSFPQAER AVPAQAAYLTLWTM\QVVQR GTGRKLGAKYPNLHLAGKTGT TNNNVDTWFAGIDGSTVTITW VGRDNNQPTKLYGASGAMSIY QRYLANQTPTPLNLVPEDIAD MGVDYDGNFVCSGGMRLPV WTSDPQSLCQQSEMQQQPSGN PFDQSSQPQQPQQQPAQQEQ KSDSGVAGWITDMFGSNEHLS GYELDSYPLSSARRRARFTEDD TRERDAISVINHQRNAVLIRQR VKLQQLFVSNHIACWIRRPGDA NHPGFFANMQMLKIDVVFKLA FRQQFNIRTRRDKQIFFQSGVT
9049	39417	A	9108	1	66	
9050	39418	C	9109	79	150	
9051	39419	A	9110	2	475	GRGRWGAPRLRGAL*DP*GHF LGQQPRPQLHSPAPDR/PAPTPT DAEGL/PPAAAAAAGATARVP GSRGG*GQAAEELHEAGEAQA CRGGTEDEEHG**HLCHGRAS* CPGVSGSTGSPHPSMAPDDT SGLLEFVGVPQLTLFAWVSPAE AAEQQRL
9052	39420	A	9111	171	462	PTSMGHLYSFPGN*SHAHYHPI KT*SPLPHSTPISNPSAPLKGLK PVITRLLQHGLLKPINSPYHSPIL PVLKPKDAYKLVLQNLRLINQIV LPIHSM
9053	39421	A	9112	1	573	
9054	39422	C	9113	100	297	
9055	39423	A	9114	1	1401	

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9056	39424	A	9115	24	482	VGSGDLPWEGNPLSSCSLLHEK DPPTTSGPQT/GP/GPRNISPIILNR AAPRQAQLGPNSSASAPPPYN PFITSPHTWSALQFRFVTSPPPP AQQTLKKVAGAKGTVKEHFC HDLPASSMQSNYPVHDSGHLT TGPSLFKPTLNIEYSTGHAP
9057	39425	A	9116	1	489	
9058	39426	A	9117	1	642	
9059	39427	A	9118	237	748	ETNPLSSCSLLRDKDPPTTSSPQ THQPKKHPPISNPAAPHQAELG PNPSSASAPPPYNLFITSPHTW SGLPFRSVTSPPPPAQQFTLKKV AGAKGTVKTITDIELQVTLTVE ARLRPGEINSHVAHTKPVWWS LHTDTCDIWCRRPGTGGLLQET SPLSSPSLCEEIHL
9060	39428	A	9119	63	255	WVSGSVQVKVERGWDEGCKGI VKKACLTYTNRIMHCVGRY*A *ESIWWHHGVNRQNNLVDKA
9061	39429	A	9120	24	389	SDVKANLSTGGPVGCGDGL/P VAEKPSDAVEAPGV*APSAGG AGPA\PSGLEPSGAPPPP/ALPP RAVLDSGLAPGRPLPLASSNP/P PAGRRLLLCTSPGRRGGAAGSG PRCPESKSIPLRCL
9062	39430	A	9121	704	867	CVKECLDVRHLRPFAYFTTRII* ILQDGKIQSAIF/CVIWNYCRVCI GVKRHSRRK
9063	39431	A	9122	1	7068	
9064	39432	A	9123	2	165	LLKRELNFDYKISTTKERHLQ QS*PKDSVPSLLASQTPNAPFL APQRRLLCLA
9065	39433	A	9124	1	148	IRHSVNLLRAG/RIFVFEPPPGLK ANTQRTFESGMKHVRIIYMMEF HVFM

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9066	39434	A	9125	1	2340	QFGIWLDSSSPEQTPYLVWSEE TPATPIGQAIHRLLLIQAFRPDR LLAMAHMFVSTNLGESFMSIM EQPLDLTHIVGTEVKPNTPVLM CSVPGYDASGHVEDLAAEQNT QITSIAIGSAEGFNQADKAINTA VKSGRWVMLKNVHLAPGWLM QLEKKLHSLQPHACFRLFLTME INPK\VPV\NLLRAGRIFVFEP\PP GVKANMLRTFSSIPVSRICKSP NERARLYFLAWFHAIQERLR YAPLGWSKKYEFGESDLRSAC DTVDTWLDDTAKASGRQNISP DKIPWSALKTLMAQSIYGGRV DNEFDQRLNLTFLERLFTTRSF DSEFKLACKVDGHKDIQMPDGI RREEFVQWVELLPDTQTPSWL GLPNNAERVLLTTQGVDMISK MLKMQMLEDEDDLAYAETEK KTRTDSTSDGRPAWMRTLHTT ASNWLHLIPQTLSHLKRTVENI KDPLFRFFEREVKMGAKLLQD VRQDLADVQVCEGKKKQTN YLRTL\NELVKGILP\RSWSHYT VPAGMTVIQWGVPIARR\KQ LQNISLAAASGGAKELKNIHVC LGGLFVPEAYITATQYVAQAN SWSLEELCLEVNVTTSSQGATLD ACSFVGTGLKLQGATCANNKL SLSNAISTALSLTQLRWVKQTN TEKKASVVTLPVYLNFTADLI FTVDFEIATKEDPRSFYERGGG
9067	39435	A	9126	3	6375	HKVAAPDVVVPTLDTVRHEAL LYTWLAEHKPLVLCGPPGSGK TMTLFSALRALPDMEVVGLNFS SATTPELLLKTFDHYCEYRRT NGVVLAPVQLGKWLVLFCDEI NLPDMDKYGTQRVISFIRQMVE HGGFYRTSDQTWVKLERIQFV GACNPPTDPGRKPLSHRFLRHV PVVYVDYPGPASLTQIYGTFR AMLRLIPSLRTYAEPLTAAMVE FYTMSQERFTQDTQPHYIYSPR EMTRWVRGIFEALRPLE

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9068	39436	A	9127	3	617	SWFQPPSGPPWPGA\PPPPPLAR VNPGVVPSLTTS LMDVEP*AQV ELPSHPRVPSPAPGPAP*VLEPP RSL LTVVGPQGPSWAGGGMA VRQALEEAACRDP CIAISSWAG GDRPLWWLDG LLLRRVYPDSC PPCPSRIPAIFGASLQGSINPILQ MRKLFP HMDLL*GQDPFSCR RPESWNRDVGWLALGVFCLVP FSLVGSLN
9069	39437	A	9128	1	702	
9070	39438	A	9129	1	1317	
9071	39439	A	9130	1	2641	MGLKARRAAGAAGGGGDGGG GGGGAANPAGGDAAAAGDEE RKVGLAPGDVEQVTLALGAGA DKDGTLLLEGGGRDEGQRRTP QGIGLLAKTPLSRPVKRNNAKY RRIQT LIYDALERPRGWALLYH ALVFLIVLG\CLILAVL\TTFKEY ETVSGDW LLLLETFAIFIGAEF ALRIWAAGCCCRYK GWRGRLK FARKPLCMLDIFVLIASVPVVA VGNQGNVLATSLRSLRFLQILR MLRDGPGE GGTWKL L\SAICA HSKELITAWYIGFLTILSSFLV YLVEKDVPEVDAQGEEMKEEF ETYADALWWGLITLATIGYGD KTPKTWEGRLIAATFSLIGVSFF ALPAGILGSGLALKVQE QHRQK HFEKRRKPAAELIQA AWRYYA TNP NRIDL VATWRFYESVVSFP FFRKEQLEAASSQKLGLLDRVR LSNPRGSNTKGKLF TPLNVD AI EESPSKEPKPVGLNNKERFRTA FRMKAYAFWQSS EDAGTGDP MAEDRGYGNDFPIEDMIPTLKA AIRAVRILQFRLYKKKFKETLRP YDVKDVIEQYSAGHLDMLSRIK YLQTRIDMIFTPG\PPSTPKHKE VFRKGQHFTFPSQQSSRGLNHM *ARPSTSENE DQRH*WGKFVKS LKGQV\QGLGRKLD FLVDMHM QHMERLQVQVTEYYPTKG TSS PAEAEKKEDNRYSD LKTIICNY
9072	39440	A	9131	353	477	QNEILPQISKSNNEI*SRSPH*ITR NLNNSNKM AHKMKFAN
9073	39441	C	9132	170	310	

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9074	39442	A	9133	1	859	MSCGRPPPDVDGMITLK\VDNL TYRTSPDSLRRVFEKYGRVGDV YIPREPHTKAPRGFAFVRFHDR RDAQDAEA\AMDGAE*EGRAL RI\QVARYGRRDLPRSRQG/PTP RGRSRGGGYGRRRSYGRRSRS PRRR\HRNRFFCPCSRRRRGR YRGSRYSRSPYSRSPYSRYSR SPYSRSRYRESRYGGSHYSSSG YSNSRYSRYHSSRSHSKPGSSTS SRSASTSKSSSARRSKSFVS\RS RSR\SRSSSMTRSPPGVSKRKSK SR\SRSKRPPKSPEEEGQMSS
9075	39443	A	9134	161	332	SCLNQLN/YLEMWKLFRKAQE DHTLGRDISYVAEVRPGEAGGR AHTGDSLLTMNPSFL
9076	39444	A	9135	1123	1489	LQTLQGHNSQNSMVLVPKQR YRSMEQNRAIRNNVTYLQLSD L*QA*EKQAMGKGFPIS*MVLG KLASHM*KAESGSLPYTLYKN* FKMD*RLKH*T*NHKNPRRKPR HYHSGHRHGQGLHV
9077	39445	A	9136	277	367	
9078	39446	B	9137	1	1136	
9079	39447	A	9138	3	1168	
9080	39448	A	9139	1	1460	ERGLETNSCSEELSSPGRGGG GGGRLLLQPPGPELPPVPFLQD LVPLGRLSRGEQQQQQQQPPPP PPPPPGPLRPLAGPSRKGSFKIRL SRLFRTKSCNGGSGGDGTGK RPSGELAASAASLTDMGGSAG RELDAGRKPKLTRTQSAFSPVS FSPLFTGETVSLVDVDISQRGLT SPHPPTPPPPRRSLSLDDISGT LPTSVLVAPMGSSLQSFPLPPP PPHAPDAFPRIAPIRAAESLHSQ PPQHLQCPLYRPDSSSFAASLRE LEKCGWYWGPMNWEDAEMK LKKGKPDGSFLVRDSSDPRYILSL SFRSQGITHHTRMEHYRGTFSL WCHPKFEDRCQSVVEFIKRAIM HSKNGKFLYFLRSRVPPLPPNS CQ\LIYPMRFSIYESFQHLAKF RIRQLVRIDHIPDLPLPKPLISYI RKFYYYDPQEEVYLSLKEAQS VSKQKQEVPEST*RGAPCWSP RAFGCQAPALKNQIKLP

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9081	39449	A	9140	2	418	KSPSKYLCYTFIISTAALVLLIM LPHESMPVYLGMACTLGFGAIV FTQRAV\FFAPIGEAKIAENKTG AAMALGSFIGYAPAMFCFSLYG YILDNLNPGIIGYKIVFGIMACFA FSGAVVSVMLVKRISQRKKEM LAAEA
9082	39450	A	9141	26	180	KPAHQCCVFFCPVVSAHQGEV LPYKSGVTSIESFVTICKVIRR* LLSFLA
9083	39451	A	9142	299	921	FGTAALVL*IVLPPEISPSH*GM ACTLGLGAIVLTQRAV/FFAPIG EAKIAENKTGAAMALGSFIGYA PAMFCFSLYGYILDNLNPGIIGYK IVFGIMACFAFSGAVVSVMLVK RISQRRIRRLRRIRQFHRRNTSS RYGSGFARGGRKATRGISSQEL GQGLSGEEQDGASGGVTAGDI ATGDYFLLTPHLQICTGAKGGL GCVVEGR
9084	39452	A	9143	1	752	MSELPFAIASKRKEYVGIQLPR YTIQKLEENLNVVLFDRSGHRT KFTNVGRMLLERGRVLLQAAD KLTTDAEALARGWETHLTIVTE ALVPTPAFFPLIDKLAANKANTQ LAIIT*VLGAWERLEQGRADI VIAPDMHFRSSSEINSRKLYTL MNVYVAAPDHPHQEPEPLSEV TRVKYRGIAVADTARERPVLTV QLLDKQPRLTVSTIEDKRQALL AGLG VATMPYPMVEKDIAEGR LRVVSPESTS
9085	39453	A	9144	389	760	SWRIDVHPV*YTTRLFPFVLPY MQKGTSIRTSSRQLLDKQPRLT V/STIEDKRQALLAGLGVA/TMP YPMVEKDIAEGR LR/VVSPESTS EIDIIMAWRVTKRTPKN*WTM MPENIGEYTKTTHILG

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9086	39454	A	9145	1	941	MTAMERSRILRRRAVDILRRND ELAKLETLDTGKAYSETSTVDI VTGADVLEYAGLIPALEGSQI PLRETSFVYTRREPLGVVAGIG AWNYPQIALWKSAPALAAGN AMIFKPSEVTPLTALKLAEIYSE AGLPDGVFNVLPVGVAETGQY LTEHPGIAKVSFTGGVASGKKV MANSAASSLKEVTMELGGKSP LIVFDDADLDAADIAMMANF FSSGQAKR/NGARVLCGGDGVR ARDRPNLRRENLRGKYHS*QR HRRPDAC*YRPRL*RCGGRYAD D*VQAGAGSDGL*ATGHGGRR EC*PYVTGEAG
9087	39455	A	9146	3	504	DQQQNRQR/LIDCFPHAQWAKE VDVSDKEARCGVRCATRDHLP MVCNVPDYEATLVEYASSAEH KDDAVSAPVFDDLFI\GSRGLC SGPLCAEILAT*IS\DEPMMDA SML\AALIPNRLWVRKLLKGKA VKAGAVHFRRSIYFHPQQANA LDFPSTHIKYCTMLL
9088	39456	A	9147	197	353	YGFRWPD*AHPAIN*ASAASISF LRWLIRLTSITETAPLNAKQAI MPNTIL
9089	39457	C	9148	1	1263	
9090	39458	A	9149	3	726	GAKNAREAIYHIEGDPDHPNEN RLRYPEYRAPGSDKWQRISWEE AFSRIAKLMKADRANFIEKNE QGVTVNRWLSTVNKKKISLRT VGAALVLQVVIGGIMLWLPPG RWVAEKVAFGVHKVMAYSDA GSAFIFGSLVGPKMDTLFDGAG FIFGFRVLPPIFVTALVSILYYI GVMGILIRILGGIFQKALNISKIE SFVAVTTIFLGQNEIPAIVKPFID RLNRNELFTAICSGMASIDG
9091	39459	B	9150	1	1662	
9092	39460	B	9151	1	2658	
9093	39461	C	9152	1	2526	
9094	39462	A	9153	422	585	PYRLKQNIAGA*PIKLPNAIAAP VLFSIAFASTIGAKILLAVLRLSR PHPSVHA
9095	39463	A	9154	1275	1485	
9096	39464	A	9155	1	439	

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9097	39465	A	9156	1049	2195	NMPKASSCRFSTATTYLRDRSC K*PWAGS*KKNSWR*CRRRTTS SHRTRLNATWGVSVKRRTKAR CSMVCASRG/SNARGLELVKE GRAQACVSAGNTGALMGLAK LLLKPLEGQNHRMLLRWEAKL AALVRLQENTAQPVPFAPNNA RPLTLEDDRLSCTVRGYNFAITF SKMSGKPTSWQLVASALATKI AHEVNPQNQVGCMLAGGNFYF YSCKPEDVWAALEKDRENFFI DVQARGTYPAYSARVFREKGV TINKAPGDDEILKNTVDFVSFSY YASRCASAEMNANNSSAANVV KSLRNPYLQVSDWGWGIDPLG LRITMNMMDRYQKPLFLVEN GLGAKDEFAANGEINDDYRISY LREHRCNGRSDCRQAFR
9098	39466	B	9157	482	542	
9099	39467	A	9158	115	1662	TPYPDAITTHDIVDTPVQGGA VRVLVFSASLRLVSSVLFSLV WGFVSFCRRFVPCRVCVLLCCL FWCFVFGVWLP RRHMSNHA GVGEQQCQRGNINGAPETFAS MANTGT*QW/QRISWEEAFSRI AKLMKADRDANFIEKNEQGV VNRWLSTASLAPTFRGAMTN HWVDIKNANVVMVMGGNAE AHPVGFRWAMEAKNNNDATLI VVDPRFTRTASVADIYAPIRSGT DITFLSGVRLRYLIENNKINAEYV KHYTNASLLVRDDFAFEDGLFS GYDAEKRYQDKSSWNYQLDE NGYAKRDETLTHPRCVWNLLK EHVSRYTPDVVENICGTPKADF LKAAPDRITTTFLYALGWTQHT VGAQNIRTMAMIQLLLGNMGM AGGGVNALRGHSNIQGLTDLG LLSTSLPGYLTLPSEKQVDLQS YLEANTPKATLADQVNYWSNY PKFFVSLMKSFYGDAAQKENN WGYDWLPKWDQTYDVIKYFN MMDEGKVTGYFCQGFNPVASF PDKNKVVSCLSKLKYMVIDP LVTETSTFWQNHEAAVSGGKR PGRKRLNLLPMARLTITIASAT YANISAQWAKRLQTAFR
9100	39468	A	9159	1	2235	
9101	39469	A	9160	1	1821	

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9102	39470	A	9161	14	1785	FDQVEERVSVIEDQMNMKRE EKFREKRVIRNEQSLQEIWDYV KRLNLHLIGVPESDWENGTKLE NTLQDIIQENFPNLRQANIQQ EIQRMPQRYSSRRTTPRHILNA HKRK*ERYKIDTLTSQKLEK QEQTYSKASRRREITKIRAEK IETQKTLQKINESRSCFEKINKID RLLARLIKKKREKNQTDVIKND KGDITDPTEIQTTIREYYKHLY TNKLENLEEMDKFLDTYTLPR NQEEVESLNRPTGSEIEAIINSL PTKKSTGPDRTAEFYQRYKEE LVPFLLKLFQSIEKEGILLNSFYE ASTILIPKAGRDTTKKENFRPISL MNIDAKILNKILANRIQQHIKKL IHYNQVSFIPGIQGWFNICKSIN VIQHINRTKDKNHTIISIDAEKA FDKIQPFMLKTLNKLGDGT LKIMTAIYDKPTASTILNGQKLE AFPLKTGTRQGCPLSPLFNIVL EVLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQT LLKLISNFSKISGYKINVQKSQV FPYTNNRQTESQIMSELLFTIAS KRIKYVGIQLTRDVKDLFKEN
9103	39471	B	9162	1	2025	
9104	39472	B	9163	67	3156	

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9105	39473	A	9164	1	2019	MDTIKNDKGDITTDPTIEIQTIR EYYKHLKYANKLENLEEMDKFL DITYTLPRLNQEEVESLNRPVGR SEIEAIINSLPT/KKSPGPDEFTAE FYQRK\AFDKIQQAFTLKTNLK LVIDGTYRKIIRAICDKPTANIIL NGQKLEAFPLKTGTRQGCPLSP LLFNIVLEVLDRAIRQEKEITCIQ LGKEEVKLSLFADDMIVYLENP IISAQNLLKLISNFSKVSGYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKKIKYLGILTRDVKD LFKENYKPLLNEIKEDTNKWEN IPCSWVGRINIMKMAILPKVIYR FNAIPIKLPAFFTELEKTTLKFI WDQKRAYIAKSILSQKNKAGVI MLPDFKLYYKATVTKTAWYW YQNRDIDQWNRTEPSEIMLHIY NYLIFDKPDKDEQWGKDSLFI KWCWENWLDIWRKLKLDPFLT PYTKINSRWIKDLNVRPKTIKTL EENLGNTILDIGMGKDFMSKTP KAMATKAKIDNWDLIKLSFC TAKETTIRVNRQPTKWEKIFTT YSSDKGLISRIYKELKQIYKKKT NNPMNKWAKDMNRHFSKEDI YAAKRHMKKCSSSLAIREMQIK TTMRYHLTPVRMVIKKSGNNR PPLSKEQPPIFRLSIILATTRDGN PAAVENVLHIKATLSFQQTHKA FYFQPS
9106	39474	A	9165	1	3477	

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9107	39475	A	9166	1	2460	MGDFNIPLSTSDRSTRQKVNKD TQELNSALHQADLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHIVG SKALLSKCRRTIITNCLSDHSA IKLEIRIKKLTQNCSTTWKLNNL LLNDYWVNNEMKAEIKMFEEI NEDKDTTYQNRWDTFKA VCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQT HSKASRRQEI TEIRAE LKEIETQKTLQKMNES RSWFF EKINNIDRLRLARIKKKR EKNQIDA IKNHKG DITNPTEIQ TTIREYDKHLYANKLENLEETD KFLDTYILPRLNQE QVESLNRPI TGAEIEA INSLR TKKSPG PGGF TAEFYQRYKEE/HVLEVLARAI RQEKEIKGIQLGKEEVKLSLFA DDMTVYLENPTVSAQNLLKLIS NFSKVSGYKINVQNPQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTRDMKELFKENYKPLLS EIKEDINKWKNIPCSWVGRINIV KMAILPKVIYRFNAIPIKLPMTF FTELEKTTFKFIWNQKRARIAK SILSQKNKAGGITLADFKLYYK ATVTKTAWYWYQDRHIDQWN RTESSEIMPHIYNILFDKPDKN KKWKGDSL FNKWCWENWLAI CRKLKLDPFLTPYTKINSRWIK DLNVRPKTIKTLEENLGITIQDT GMGKDFMSETPKAMATKDKID KWDLIKLSFCTAKETTIRVNR
9108	39476	A	9167	1	1389	

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9109	39477	A	9168	1	1659	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRSLH AKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWIHDEMKAIEKMFF ETNENKDTTYQNLWDAFKATA SKTNKEKEKNQIDTIKNDKGDI TTDPTEIQTIREYYKHLANK LENLEEMDKFLDTYTLPRLNQE EVESLNRPIITGAIEVAIINSPLTK KSPGPDGFTAIFYQRYKEELHI NRAKDKNHMISIDAIEKAFDKI QQPFMLKTLNKLIGDGYFKIIR AIYDKPTANIILNGQKLEAFPLK TGTRQGCPLSPLFNIVLEVLAR AIRQEKEIKGIQLGKEEVKLSLF ADDMTVYLENPIVSAQNLLKLI SNFSKVSQYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLGQQLTRDVKDLFKENYKPLL KEIKEDTNKWKNI PCSWVGRIN IMKMAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQKIRARI AKAILSQKNEAGGITLP
9110	39478	B	9169	1	1716	
9111	39479	B	9170	1	3171	
9112	39480	A	9171	1	2952	MLLNQGRKLPRVFAETLKFK GTSNKPQTLEQISTSIQAQKEAT VMVPGSNQEIPSGAYAIRALGF KHKTGRLFEQTLNLYLQEFLLTP QWHECQQERTVHSPGKAAEA REPSVIDRHLEQESSNWHLVGA ALGQSFQRKEQAIFAFLVQLPL VIPRQTGSGVDLQKTPDLQQR GLIVRRKTNKQKGIVHNSTTRE QNWTENEFDKLTGEGFKRWVI TNSSELKEHVLTQCKEDKNLEK SAIKLELRIKNLIQN
9113	39481	B	9172	1	2406	
9114	39482	A	9173	1	2307	

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9115	39483	A	9174	3	2776	QRDLDSHTLIMGDFNTPLSILDR STRQKVNKDTQELNSALHQAD LIDIYRTLHPKSTEYTFPSAPHH TYSKIDHILGSKALLSKCKRTEII TNCLSDHSAIKLELRIKTLTQSH STTWKLNLLNDYWVHNEM KAEIKMFFETNENKDTTYQNL WDAFKA VCRGKFIALNAHKRK QERSKIDTLTSQKLELEKQEQT HSKASRRQEITKIRAELEKETQ KTLQKINESRSWFFERINKIDRP LARLIKKKREK
9116	39484	B	9175	133	3213	
9117	39485	A	9176	284	1689	QNFGNFKDLL*RSLW*REKSWI CML*ARNTASRQQRNKAGQR MTLMS*EKKASDDQTSR*/Q EVRTHRKEAKNLVKRLDKWLN RITSVEKSLNDLMELKTM/RTR TTT**MHKLQ*PI*SFGRKEIQTT IREKHL YANKLENLEEMDKFL ETYTLPRLNQEEVESLNRPTGS EIEAIINSLPTKNSPGPDRFTAKF YQMYKEELVPFFLKLFQSIEQE GILPNSFYEASIIIPKPGRDPTK KENFRPISLMNIDAKIFNKILAN QIQQHKKLIHHDQMGFIPGMQ DWFNIRKSINVIQHINRTKDKN HTIISIDAEKAFDKIQQCFMLKT LNKLGIDGTYVKIIRAIYDKPTA NIILDGQKLEAFPLKTSTIQGCP LSPLLFNIVLEVLARAVRQEKEI KGIQSGKEEVKLSLFADDMTV YLENPIISAQNLLKLKSNFSKVS GYKINVQKSQAFLYTNNREP
9118	39486	A	9177	1	1515	

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9119	39487	A	9178	3	1601	ESRS*FFEKINKI/D/RLLARLIKK KREKNQIDAINKDKGDITTDPT EIQTIREYYKHLTYTNKLENLEE MDKFLNTYTLPRLNQEEVESLN RLITGSEIEAIIINSPLTKKSPGLD TFTAIFYQRYKEELVPFLLKLF QSIEKEGILPNSFYEAIIILIQKPG RDTTKKENFRPISLMSINAKILN KILANRIQQHIKKLIHHDQVGS PGMKGWFNICKSINVMQHINRT KYKNHMIISIDEEKAFQKIQRKF MLKTLNKLSDIGTYLKHRAIYD KPTANIILNGQKLEAFPLK\NGT RQGCPLSPVLFNIVLEVLARAI/ RLISCFKVSQYKINVQKSQAFL YTNNRQTESQIMSELPFTIASKR IKYLGILTRDVKDLFKENYKP LFNEIKEDTNKWSIPCSRVGRI NIVKTAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQKRACIV KTILSKKNKAGGITLPDFKRY KATVTKTA/WSFHELGKTQLAT RTTVSTFQQIPGI*VQLRFDFSR DITLLSLLCR
9120	39488	B	9179	1	2034	
9121	39489	B	9180	1	2088	
9122	39490	A	9181	1	1870	MKAEIKMFFETNENKDTTYQN LWDTFKA VCRGKFIALNAHKK KQERSKIDTLTSPLEKLEKQEQT HSKASRRQEITKIRAELEKETQ KTLQKINESRSWIFESINKIDRPL ARLIKKKREKNQIDAINKDKGD IITDPTEIQTIREYYKHLYANK LENLEEMDKFLDTYTLPRLNKE EVESLNRPIGAEIVAIINSPLTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQSIEKDGLPNSFYEASI ILIPKP
9123	39491	A	9182	1	1410	
9124	39492	A	9183	1	3996	

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9125	39493	A	9184	281	3030	KPRLNYMKNAEASRADAINW KKG Y/LVMEDKMNEMKREGKF REKRIKRNKQSLQEIW DYVKRP NLRLISVPESDRENGTKLENTL QDIIQENFPNLARQANIQIQEIQ RTPQRYSSRRATPRHIIVRFSKV EMKEKMLRAAREKEIQTNIREY YKHRYANKLENLEEMDKFLNI YTLRRLNQEEVESLNRPIRGSEI VAIINSLPTKKSPGPDGFTA EYY QRYKEELVPFLLKLFQSIEKEGI LPNSFYEASII
9126	39494	A	9185	1	2250	
9127	39495	A	9186	248	2385	RQWAGVVGRCSHLASWVSSNT SETGAIRSSTEVDAPDDSM LLST CDIDLTAARRAWLGCLPTKKSP GPDGFTA E FYQRCKEELVPFLL KLFQSI/EKEGILPNLFDEASII PKRGRD TT KKENFRPISLMNID AKILNKILANRNQQHIKKLIHH DQVGFI PG MQGWFNICKSINVI QHINRTKDKNHMII SIDA EKAF DKIQQP F MLKTLNKL GIDGTYL KIIRAIYDKPTANIILNGQKLEAF PLKTGTRQGCPLSPLLFNIVLEV LARAIRQEKEIKGIQLGKEEVKL SLFADDMIVYLENPIVSAQNLL KLISNFSKVSA YKINVQKSQAF LYTNNRQTESQIMSVFPFTIASK RIKYLGIQLARNAKDLFKENYK PLLNEIKEDTKKWKNIPCSWVG RINIVKMAILPKVIYRFNAIPIKL PMTFFTELEKTTLKF IWNQKRA RIAKSILSQKNKAGGITLPDFKL HYKITVTKTAWY WYQNRDIDQ WNRTEPSEITPHIYNYLIFDKPE KNKQWGKDSL FNKWCWENWL AICRKLKLDPFLTPYTKIHPRWI KDLNVRPKTIKTLEENLGNTIQ DIGMGKDFMSKTPKAMA AKA KIDKWDLIQLKS FCTAKETTIRV NRQPTKWEKIFATYSSDKGLIS RIYKELKQIYKKK\TNNPIKKW AKDMNRHFSKEDIYAANKHM KKCSPSLAIREMQIKTTMRYHL

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9128	39496	A	9187	1	2229	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VQNFENLEECITRITNTEKCLK ELMELKTKARELREECRLSR CDQLEERVSADEMNEMKRE GKFREKRIKRNEQSLQEWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLRQANVQI QEIQRTPQRYSSRRATPRHIVR FTKVEMKEKMLRAAREKEIQT TIREYYKHLIYANKLENLEEMD TFLDTYTLPRLNQEEVESLNRP TGSEIVAIINSLPTKKSPGPDGFT AEFYQRYKEELVPFLCLKFQSIE KEGILPNSFYEASIIIPKPGRDT TKKENFRPISLMNIDAKILNKIL ANRIQQHIKKLIHHDQVGFIPG MQGWFNIRKSINVIQHINRAKD KNHMIISIDAEKAFDKIQPFML KTLNKLGDGTFFKIIIRAIYDKP TANIILNGQKLEAFPLKTGTRO GCPLSPLLFNIVLEVLAIRQE KEIKGIQLGKEEVKLSLFADDM IVYLENPIVSAQNLLKLISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMGELPFTIASKRIKYLGIQ LIRDVKDLFKENYKPLLKEIKE DTNKWKNIPCSWVGRINIVKM AILPKVIGKTTLKFIWNKKSRIAK SILSQKN/KAGGITLLTQLYYKA TVTKTAWYWYQNRDIDQWNR
9129	39497	A	9188	1	2667	
9130	39498	A	9189	1	3033	MADMLTWESCLEESLQEE SPL VTHCGPSCCISGQSPSSARPSS VSSAISVLMPLQNRKLPPAWTS PGIFPTDLVVYSMSLPHALARY NCDVCKSMLPPRLYAPEEKAR TSPLCGTWYSPSLPLCGAWCKK NEKKRERERERKRQREDILSGA SSYKDTIHIQLRPPYDVLQQIQ TTIREYFKHLIYANKLENLEEMD KLLDTYTLPRLNQEEVESLNRLI TGSEIVAIINSLPTKKSPRPGFT AEFYQRYKEE

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9131	39499	A	9190	1	950	MQAICTGQARALICMGGNFAL AMPDREASAVPLTQDLAVHV ATKLNRSHELLTARHSYILPVLG RSEIDMQKNGAQAVTVEDSMS MIHASRGVLKPAGVMLKSECA VVAGIAQAALPQSVVAWEYLV EDYDRIRNDIEAVLPEFADYNQ RIRHPGGFHLINAAAERRWMT SEIQTIREY\YKHL\YTNKL\ENL EEMDKFLDTYSLPRLNQEEVES LIRPITGSEIEAVVNSPPTKNSPG PDRFTAKFYQRY/K/EELVPFFL KLFLAAVPAPSSHGPFCCSRKA LRGSKTGSAYPSSSALRRVTVS EVCCLFAEAQLF
9132	39500	A	9191	1	3470	MASVSSATFSGHGARSLLQFLR LVGQLKRVPRGTGWVYRNVQRP ESVSDHMYRMAVMAMVIKDD RLNKDRCVRLALVHDMACIV GDIAPADNIPKEEKHREEGKN CHKQKAMGKHLKEPHVLGQET KGLESTDVLLPLPAAGQDLGRE KKIREEAMKQITQLLPEDLRKE LYELWEDLEFESPSCLDSLCC SLKPQSESSPVLPEGCETLIQRL CAVGTGVTAAALATRLCRASGL PAPHQWASELQSRKKE
9133	39501	A	9192	1	3907	MAAWNLLLSYAYWGGLRKE DFHCLDRKTLRTVSFLAALLSY ESIGGKGKLTTRKDIYTENPSV HHHHQRPKVDKTTKMGKKQN RKTGNSKMQSASPPPKERS ATEQSWMENDFEELREEGFRRS NYSELREDIQTGKKEVENFEKN LEECITRITNTEKCLKELMELKT KARELREECRSLRSRCDQLEER VSAMEDEMNMKREGKFRDK RIKRNEQSLQEIWDYVKRPNLR LIGVPESDVENGTKLENT
9134	39502	A	9193	3	3197	

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9135	39503	A	9194	1	3158	MVKGSIQQEELTILNIYAPNTG APRFIKQLLSDLQRDLDSHTLIM GDFNTPLSTLDRSTRQKVNKDT QELNSALHQADLIDIYRTLHPK STEYTLFSAPHHTYSKIDHILGS KALLSKCKRTEIITNYLSDHSAI KLELRJKNLTQSRSTTWKLNLL LLNDYWRKQERSKTDLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRPLARLIKKKEKNQID TIKNDKGD
9136	39504	A	9195	1	3285	
9137	39505	B	9196	1	1366	
9138	39506	A	9197	735	3541	RSFPRSRPSPFLLLSRYLRIHVMV FSVLPFGLQNP KYLLSGSLQEK FRTPGINSHKTLDPNRVVIKVR RLEKEKALRAYVGKSEVRNMH LRERCKL*KKREKNQIDTIKND KGDITTDATIEIQTIREYYKHLY ANKLENLEEMDKFLDTYILPRL NQEEVESLNRPITGSEIEAIIINSL PTKRSPGPDGFTAIFYQTYKEE LVPFPLKLFQSTEKEGILPNSFY EASIIIPKPGRDTTKKENFRPIS
9139	39507	A	9198	1	5356	MGKKQNRKTGNSKMQSASPPP KERSSSPATDQSWMENDFDEL REEGFRRSNYSELREDIQTGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRS RCDQLEERVSAEMENEMK QEGKIKRDKEGHYIMVKGSIQQ EELTILNIYAPNTGAPRFIKQVL SDLQRDLDSHTLIMGDFNTSLL TLDRSMRQKVNKDTQELNSSL HQADLIDIYRTLHPKSIEYTFSS APHHTYSKIDHIVGS

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9140	39508	A	9199	1	2491	MGDFNTPLSTLDRSTRQEVNK DTQELNSALHQVDLIDIYRTLH PKSTEYTFFSAPHYTYSKIDHIV GSKALLSKCKRTEIITNCLSDHS AIKLELRIKKLTQNHSTTWKLN NLLLNDYWVNNEVKAEIKMFF ETNENKDTTYQNLWDTFKAIN KIDRPLARLIKKKREKNQIDAIK NDK\WDITTDPTIEIQTIREYYK HLYANKLENLEEMDKFLDTYT LPRLNQEEVESLNRPIITGSEIEAI TNSLT\TKKSPGPDGFTAKFYQR YKEELVP\FLLKLFQLEKEGILP NSFYEASHILIPKGRDTT\KQKK NFRPISLMNIDAKILNKILANRI QQ\HIKKLIHHDQVGFIPG\MQG LFNICKSINVIIHHINRTKDKNYM IIS/I*DAEKAFDKIQQPFMLKTL NKLIGDGYLKIIIRAIYDKPTAD IILNGQKLEAFSLKTGTRQGCP SPLLFNIVLEV LARAVRQEKEIK GIRLGKEEVKLSLLADDMIVYL ENPIVSAPNLLKLISNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD MKDLFKENYKPLLNEIKEDTNK WKNIPCSWVGRINIMKMAILPK VIYRFNAIPIKLPMFTFFTELEKTT LKFIWNQKRARIAKSILSQKNK AGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIT PHIYNYLIFDKPEKMSIIDTGGW
9141	39509	A	9200	1	3083	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELWEDIQTKGKE VENFEKNLEECITRITNEKCLK ELMELKTKARELREECRLSR CDQLEERVVSAMEDEMNMKRE GKFREKRIKRNEQSLQEIWYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQI QEIQRTPQRYSSRRATPRHIVR FTKVEMKEKMLRAAREKEIQT TIREYYKHLYANKL

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9142	39510	A	9201	1	4201	MRKKQSRKTGNSKKQSTSPPPK ERSSSPAMEQSWTENDFDELRE EGFRRSNYSKLQEEIETKGQEV ENLEKNLDKCITRITNIEKCLKE LMELKAKARELHEECRSLRSRC DQLEERVSVMEDEMNMKQE GKFREKRIKRNEQSLQEIWDYV KRPNLPPIDVPESDRENGTKLE NTLQDVIQENFPNLARQANIQI QEIQRMPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKAFKQ ASRREDDIAKVTS
9143	39511	A	9202	715	6193	GQHHPDTKAWQRHNKKKENF RPISLMNIDAKILNKMLANQIQ QHIKKLIYHDQVGFIPGMQGW NICKSINVIIHHINRTKDKNHMII SIDAAKAFDKIQPFMLKTLNK LGIDGTYLKHRAIYDKPTASIIL NGQKLEAFTLKTGTRQGCPLSP LLFNIVLEVLARAIRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIISAQNLLKLIGNFSKVSQYTIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKR
9144	39512	A	9203	1	3682	KEGHYIMVKGSIQQEELTILNIY APNTGAPRFIKQVLSDLQRDLE SHTLIMGDFNTPLSTLDRSTRQ KVNKDTQELNSALHQADLIDIY RTLHPKSTEYTFFSAP\HHTYSK IDHILGSKALLSKCKRTEIITNCL SDHSAIKLELRIRKL\TQN\RSAT WKVNNLPPGMTYV\HNGNE GQKLKMFETQWE/HKDTAYQ NLWDTFKAGCRGKFIALNAHK RKAGKDPKLTPLTSQLKKLEK QEQT\HSKAS
9145	39513	A	9204	1187	1680	DSPCTIASTRSYFICNRPLSVDI QLRCSCRNVRLSTYC/LYLRQ LRIEGGNFVFTTKADNGPQQIIT *TNSFPVGNAQTVKVRHHILT FFINLFGKEIGGPDHFNNGFTQP LPSGGTQPQHLSCVTIDGGNVT MRIHRNQPFINRTKQRLLLTDH ACDLLWLH
9146	39514	A	9205	3	293	ERSWSQLLFSTEQFWQQLPGTG SGRARQNI SRKTPREHAGGYRR DNGNNWAVPHIQCNLVPR**K RPPVRAHRAPE TLCASKALQEQ RYWVFELLR
9147	39515	A	9206	1	4509	
9148	39516	A	9207	1	507	

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9149	39517	B	9208	1	3448	
9150	39518	A	9209	1	2652	
9151	39519	A	9210	75	784	
9152	39520	B	9211	1	1968	
9153	39521	A	9212	1	298	LQGHVLVDYVSLSCLPFGIMGH GNWPLWVLTACLVLLLC*/WSL RRQ*IQQ*APSDQKRDFLVPHG A/VFDR*ISATCWSSINWPANCS RPSIAGWPKQAS
9154	39522	B	9213	167	362	
9155	39523	A	9214	959	1267	YHWHQLLSMVRQLMVLSWKK ISSWFMGPPIRKSILAENSI*KN LV*VIILKLTEGISTLK*MAPQN TQY*MTVIKLFKWVARQTRLR SIMVCYSSTTTLLT
9156	39524	A	9215	370	555	
9157	39525	A	9216	1	1016	MSHQLTFADSEFSSKRRQTRKE IFLSRMEQILPWQNMVEVIEPFY PKAGNGRRPYPLETMLRIHCM QHWYNLSDGAMEDALYEIASM RLFARLSLDSALPDRTTIMNFR HLLAQHQLARQLFKTINRWLAE AGVMMTQGTLDATIIIEAPSST KNKEQQRDPFMHQTKKGNQW HFGMKAHIGVDAKSGLTHSLV TTAANEHDNLNQLVQNELETAE RFRREQEDTQSKCLLSSIMLYIKN LSGPDVSELISPLSEGFNLCSV VVAVIAAVLRRAPIHMPSGWW RSWNAESGAYNVTRSGDSYI/H G*LLYRSRKLDPADEGALQK WWSVLPFFKRRLWF
9158	39526	A	9217	408	643	PGCGSGHSWHRHQCGPSCQSA TDCLSWSDASPDRVAALCSWS SWVPQ*WWHR/HKVP*VIMTP ASASQRLMVLNNWRAS
9159	39527	A	9218	626	760	
9160	39528	A	9219	1	2469	
9161	39529	A	9220	1	756	
9162	39530	A	9221	1738	1913	PTAWSPPRPTSMTSISWVICFME RSNLSQPMPTAKERHSARSWPR WMWTG*SPSVPAR
9163	39531	A	9222	2403	2760	FRGDGILVSCPLVFSSAFSWRA ADGGKNNRVHPSV/VR*AGAL RPRTQSRIQ/SQRLNKVEKGGV KQFEHNQSCRQQVGVTIHKVVK QLADILPHGHFQFYAEVIGKLF RQRSARDAIRGSS
9164	39532	B	9223	1	3663	

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9165	39533	A	9224	1	1584	MELIEKHVSFGGWQNMRYHYS QSLKCEMNVGVYLPKAAANEK LPVLYWLSGLTCNEQNFITKSG MQRVAAEHNIIVVAPDTSRGS HVADADRYDLGQGAGFYLNA TQAPWNEHYKMYDYIRNELPD LVMHHFPATAKKSISGHSMGG LGALVLA LRNPDEYVSVSAFSP IVSPSQVPWGQQAFAAYLAEN KDAWLDYDPVSLISQGQ RVAEI MVDQGLSDDFYAEQLRTPNLE KICQEMNIKTIRYQRGAI CSAD AATRGAKRESCRS CGLLIAER PAKVEPGTASRQDNTAINIEYM KASIRARVEHPFRIIKRQFGFVK ARYKGLLKMETNWR CYSRWP/ HLFRADQMIRNPHDLYAPEVV HQA KAVTTSGYRFLPCCGFAN TFWGKTTADGTLIEHFGRR CQG WFEDDDGHREQCDFRFRFKNC PQCNAENDIAARRCRECDTVLV DPDDMLKAALRLKDALVLRCS GMSLQHGHD EKG EWLKITYYD EDGADVSEFR LQTPAQRTAFE QLFIRPHTRTPGI
9166	39534	C	9225	1	2127	
9167	39535	B	9226	1	1917	
9168	39536	A	9227	1671	2198	RAGAWASDPQRQGVVRNAALL PPDDRS DGRDAKTQSHRDG/VI SY/RAFDETILASGIVPRT PPIDGI DHPKNEADDMLRMGFIEDVETI /IGADPGRSSDRSVLCNHAGSDS SHYPPLYERAAGSAHSVQRDYP SGHQPELLDCLGYARTRSTDTG TPERWSSGHPDCDRRCSPWPGR
9169	39537	A	9228	642	746	
9170	39538	A	9229	1	2031	
9171	39539	A	9230	909	1058	
9172	39540	A	9231	2	268	WRCLLRQLKFIIKTVTSWICTG KLMLSTTSPLMMQMMVILLMP VLASKVKPKSTIN*LVS VSGNM NSKATALNLKVPPKIPVLP SL
9173	39541	A	9232	63	463	FPATCWSSINWPANCSRPSIAG WPK/PGVMMTQGT LV DATIIEA PSSTKNKEQQRDPEMHQTKKG NQWHFGMKAHIGVDAKSA*P TAWSPRPRTSMTSISWVICME RSNLSQPM PATKGRHSARSWP RWMWTG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9174	39542	A	9233	74	247	RNVMIKRRVLSSTSAS*LPPASAF CRLFSTPARWRSTACFTSGNR YRFLTVRLSGYW
9175	39543	A	9234	3	271	ASYWNRSFSPWGTYNRHPR*N RQCASRHCRGLHKQYQWPRJR S/WLNCTPAPHARDVLLWRPSS LPAGNADGPIRWRPCCVFTACS IGTT
9176	39544	A	9235	1	1048	MCSFRSQTFCCSSSRFTFARVSVI HSANHRVLNDRSTIMRTRGQD PTLPEMRRVRLLEMADAMDMF CQGLRYGPLPAPVRQQAIIIPC HRVVVRGDGTLSGYRWGVSRKA QLVRREAENEERPINRGWPKQP SDDPKHFVMPTHIEAPSSTKNKE QQRDPEMHQTKKGNQWHFGM KAHIGVDAKSGLTHSLVTAA NEHDLNQLGNLLHGEKQFVSA DAGYQGAPQREELAEVDVDW LIAERPGKVKTLKQNPKNKTA INIEYMKASIRARVEHPFRIKR QFGFVKARYKGLLKNETNWR CYSPWPTCFGWTK*YPSIPTCLL TTRTASLLKPPGVRTSVCWQQL

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9177	39545	A	9236	1	2493	MTQIFTGTLVEADPFHAVTLVA NHDTQPLQALEAPVEPWFKPL AYALILLRENGVPSVFYDPDLYG AHYEDVGGAGQTYPIDMPIIEQ LDELILARQRFAGHVQTLFFDH PNCIAFSRSGTDEFPGCVVVMS NGDDGEKTIHLGENYGNKTWR DFLGNRQERVVTDENGEATFFC NGGSVSVWVIEEAANNRQYDY GAGHKIPVINYTDVHLRIERSCR FRADPRQQHELQLSSKLAVHD VLTNIYNRRYFFNSVESLLSRPV VKDFCVMLVDINQFKRINAQW GHRVGDKVLVSIVDIIQQSIRPD DILARLEGEVFGLLFTELNSAQ AKHIAERMKNVELLTGFSNRY DVPEQMTISIGTVFSTGDTRNIS LVMTEADKALREAKSEGGNKH WYNLSDGAMEDALYEIASMRL FARLSLDSALPDRTTIMNFRHL LEQHQLARQLFKTINRWLAEA GVMMTQGTLDATIEAPSSTK NKEQQRDPEMHQTKKGNQWH FGMKAHIGVDAKSLTHSLVT TAANEHDLNQLGNLLHGEEQF VSADAGYQGAPQREELAEVDV DWLIAERP GKVRTLKQHPKRN KTAINIEYMKASIRARVEHPFRII KRQFGFVKARYKGLLKNETN WRCYSRWP/HLFRADQMILCPV FVHHIPRFFGTFFGATDTQTFTL TESVIHQPLVLTNFIAIDGNDF
9178	39546	B	9237	1	3148	
9179	39547	B	9238	1	1680	
9180	39548	A	9239	191	470	

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9181	39549	A	9240	1	1675	MFARVSTTPVTRYEMYRKTRS TRLEDNNALSQSCKPLPFSEVT GSKGKADKEKVG DYVFCLKAQ GRYNGEPLTGTGKIGGMLALR GEGTPFPVQADFRSGNTRVAFD GVVNDPMKMGGVDLRLKFSG DSLGDLYELTGVLPPDTPPFET DGRLVAKIDTEKSSVFDYRGFN GRIGDSDIHGSLVYTTGKPRPK LEGDVESRQLRLADLGPLIGVD SGKGAEKSKRSEQKKGEKSVQ PAGKVLPHYDRFETDKWDVMD ADVRFKGRRIEHGSSLPISDLST HIILKNADLRLQPLKFGMAGGS IAANIHLEGDKKPMQGRADIQA RRLKLKELMPDVELMQKTLGE MNGDAELRGSGNSVAALLGNS NGNLKLLMNDGLVSRNLMEIV GLNVGNVYVGAIFGDDEV RVN CAAANLNIANGVARPQIFAFDT ENALINVTGTASFASEQLDLTID PESKGIRIITLRSPLYVRGTFKNP QSG*WS/GTLLLSTKAKTIVAISI TTLKVTVMASVSLPMNTKDS VSVQLMRNLIVPTLKLMOGKFF LKYLLPVKMQKFGPQV
9182	39550	A	9241	72	506	GHVAHLQPRAGGRQPARLHHP QGTDRVLHGQRGQQGP/LLPS LSAWRPSTSTLKPASCGLRGPT SKRMSMQDGGLPHHRAGAQP PVHPGQEA VG*C/EYWSASSRP VTQPGALMWRLWSIAGRPRPY LLSHSQHDPHSGQGGGEHP
9183	39551	A	9242	1	447	
9184	39552	A	9243	70	490	CGCDAETIILRINALAFIWKCGT EWICCFCLALRELQQAVHAG LPQQAKILFDGGSEIGKIH*LRC AHCPLSS\GKPVVPAALMNRPT RGERRFAYWAPGWFFFSPVRR ATADCPSPGPERVAASGPRWF APAGENPV

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9185	39553	A	9244	1097	1841	ANDGDLRSCVTLSCMHSHASE AADPPATTAFTDEHMSVKLRR TVGVACSVCPGWVTSGHPVNP AAS/GAKVLPGDTDIALPGPLPF ILSR\QLRDNTLILSDNGG\RILY FELLFPGEDGYRRCESLWLVRG GVAKLDQGHRLAALWQALSEE LRLTPHRYLATNSPQGPWWLL GWCERVPEADEVLPAPLPPYRV LTGLVDRIWRSEDVSAASGLHH DNRNAPSLSDQTRTDPPIRAH SRYQRQKPDG
9186	39554	A	9245	456	928	EAATEPKHLHQLRHAALAQHR QAPRPQGRPLARPHQGQDQPD RLHHLRGGGRHGARGHLHQA GAGESAPAPKG/VTCPASPLGD VTGKPTSAWNTEKGRWAQHR GYPSGPAAPLVLRSWPIPLFRP PPLLPLSSPAWILPSPLCHSLKA QSLVQATI
9187	39555	A	9246	1	1572	

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9188	39556	A	9247	1	2505	MAWRNSVNWQCKQEPGFLHR RHGRRKLTNGTTRRSLNKEE DFYTSQPGFPALALGCCLRVNL LLGHRGISAGSSYPITSTPCHL CKLGQEVFAKPLNLQDQCQON LVMQVLKLVNCLNDFIGSSA DESADDLCTVQIPTTWRTMGL VGCDGVCCRTRWCQCLATAV VSGVGGGPWLLPACSSGSPMIS KRKKFVHKWAKDLVEPRHGLE NVWDLPRAMAGSYLMYKQRK WKIMEFGK WALQH KMTVKDIE RLQLYNKVKEQP VQVEGSGRA STIFWVLKTFKGGKSPCGAPGE CVAWTQCRILGWVQIHKEHP ADRVVGLIKMPGLDFYFAADV CYAEKVAQEKGFYRLTSRYR HYAAFERATFEQGKSTKLMMML TDKQIADFQKH YQTEPERFQILP PGIYPDRKYSEQIPNSREIYRQK NGIKEQQNLLLQVGSDFGRKG VDRSIEALASLPESLRHNTLLFV VGQDKPRKFEALAEKLGSERAS MEFKRYEYNAAGDLTAVITPD GNRSETQYDAWGKAVSTTQG GLTRSM EYDAAGRVISLTNENG SHSVFSYDALDRLÆDEGLVIL WYYDESDRITHRTVNGEPAEQ CQYDGHGWLT DISH LSEGHRV AVHDGYDDKGRLTGECQTVEN PETGELLWQHETKHAYNEQGL ANRVTPDSLPPVEWLTYGSGYL
9189	39557	A	9248	481	857	PLAYLYRDPHVRRCVTASGPAP VYGIFQPGFSAPTG/IRKSVHGD HSYCKYAHSCSRQYRAPEPRLS RTSQCLFSHRSARCPLLDLMGR RYRRPECRLSPLLPAAPVPGLPP WTIYPRRLYRNSPR
9190	39558	A	9249	777	1229	GAGYSSARCGKHHARTGGAGR NILWRQLRRRGCRSTVDRSHH NQPGTWHRHQPGRGPAPKPAR PWRAGTHLPTGTASVRHPCLG QPLRAEPRPAVPDAPRNQNLFP PAPQTDALPGAVRG*RAR*YH *SRTTTPPPDEHDH SWARACSP
9191	39559	B	9250	1	2681	

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9192	39560	A	9251	933	1828	VSRIHVLVWQPRMPAPPAVDW LTY/GSGIL/SGNKLVGTPLVEY TRDSLH/RETLRSFASMAGSNA AY/*LTSTDTPAGQLQSQH/LNS LVYDRDYGWSDNGD/LVRISGP RQTREYGYSATGRLESVRTLA PDLDI/RIPYATDPAGNRLPDPE/ LHPDMRADGGATGQKVEPEYT PARKAHL YHWTGDCRWRLSA KTAIRVERGI**MGQPAY*GEPH HVVYQPR*TWHWRWRQKGRKS ASGRRYL RPINPNVVGRENQRP TSPDGTHMAPISLMAWQPIQLR YRGHVRQRLSAVGERIYRYLPP
9193	39561	A	9252	1	1409	MECDASALLRYDSRQFIPLAID GLAKDVLGRRFALEGHPRLEAI ARAGDVVRFPADSELPDPYDG LIPGQESLKVHACVGLPLFAGQ NLIGALTLDGMQPDQFDVFSDE ELRLIAALAAGALSNALLIEQL ESQNMLPGDATPFEAVKQTQM IGLSPGMTQLKKEIEIVAASDLN VLISGETGTGKELVAKAIHEASP RAVNPLVYLNCAALPESVRKSE LFGHVKGAF TGAISNRSGKFEM ADNGTLFLDEIGELSLVLQAKL LRVGQYGD IQRVGDDRCLRVD VRVLAATNRDLREEVLAGRFR ADLFHRLSVFPLSVPLRERGD DVILLAGYFCEQCRLRQGLSRV VLSAGARNLLQHYSFPGNVREL EHAIHRAVVLARATRS GDEVIL EAQHFAFPEVTLPTPEVA AVPV VKQSLREAT*AFQRETIRQALA QNRKRW TACARMLET SVANV HRLGKRLVLKK
9194	39562	A	9253	389	799	PQFLIPSVTPCMFIHPLDAK/AR DLRRGDKVKVVSRRGEVISIVE TRGRNRPPQGLVYMPFFDAAQ LVNKLTL DATDPLSKETDFKKC AVKLEKACPYDTLKLATLASG LSAGTPYFVARDIPC EMCEDIPC AKVCPS

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9195	39563	A	9254	588	1500	RHPPIPAKIGLHAVAQDRA\NN MQAGPNINEERMPCWRDPRNF IIVSDPYPTVSALAADL/TPEVSK FPGSELAEDQLNDESRELGFYL QKGLFEEYAWFGRGHGHDLP FDDYHKARGLRWPVVGKET QWRYSEGNDPYVKAGEGYKF YGKPDGKAVIFALPFEPAAEAP DEEYDLWLSTGRVLEHWHTGS MTLRVP*LHRAFPDAGLFIYPL DAKARDLRGDKVKVVSRRGE VISIVETRGRNRPPQGLVYMPFF DAAQLVNKLTLDATDPLSKET DWPHFSSTYNGPLLQGANKGIL VQQH
9196	39564	A	9255	1	1698	MEREQDSIIMDAATTRNLEITQ NLAGGAENTLASVLDCTVTPM GSRMLKRWLHMPVRDTRVLE RQQTIGALQDFTAGLQPVLRQV GDLERILARLALRTARPRDLAR MRHAFQQLPQLRAQLETVDSA PVQALREKMGFAELRDLLER AIIDTPPVLSWMSGARWLTARP IICNYEVDRTIRHTKMNVGDVQ RLSVAVVVNYKTLPGDKPLPLS NEQMKQIEDLTREAMGFSEKR GDSLNVVNSPFNSSDESG
9197	39565	A	9256	590	910	SCSIQLSPWILPRTVMCPVGFTC ELLST*WLAKEPLKTVSWITIRS FTAETSTFGPTMTASMTFLPTY CSIIASLLSSFKLAAAILNSLPQI GRYITIGSGVRRNA
9198	39566	A	9257	1	854	MANRMILNETAWFGRGAVGA LTDEVKRRGYQKALIVTDKTL VQCGVVAKVTDKMDAAGLAF AIYDGVVANQHLYCRQDSEDF AEMSLIEGRRGLRRRPLWEFEI DTARQQLNLQFGTRDLVGVGV ENAPRGLCAAGCLLQYAKDTQ RTTLPHIRSITMEREQDSIIMDA ATTRNLEITQNLAGGAENTLAS VLDCTVTPMGSRMLKRWLHM PVRD/DPRVA*APANYWRIAGF HRRATAGTASGRRPPTYSGTSG FTNCSPTRSGPYAPRFPATAGA ACAVRNCR
9199	39567	B	9258	122	868	

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9200	39568	A	9259	2610	2897	PNLYLRFFFFFFLRQESHVSTQA GVQWCNLSLQPLPPGFKQFSH LTGLPKCWDYRSKRPRPANQT SILDVKEDPY*LHWPRSNRDIK LNLVANP
9201	39569	A	9260	2166	2426	VQPGGCGL*RQHGSYRPESRTA GGRHRG*RLLRRAFIDGGANSS GTGICRDAFNRIHWGTGRTP DVDSGEHRKTAEQRRDGAVR
9202	39570	A	9261	846	1022	
9203	39571	A	9262	1	1339	MNALSKARQYVEEFDGNIAFI FSGKPGTGKNHLAAAICNELL RERNLGESEIHTTSDHMTATL PGETQTPEDFRDVEQRQQVVI FQHLVGCVKVDGKYIQVCTFT VGGNYGGTCLRGDESLVIKES DIEPLIVTVVQQFHIGNGYVVI TITPSEGERYQGVVGLEGRIRRT RRIRHKQSARCYNLRFKPTCAIT QTTPTVSPVLKKQLVLPNPH YPGNKPNFKRVSVKIIGESASRR LQLSRGDIADALSDRFVSEAI TAKVEAAIKN*LSQYGILPEEW GGESQFVHVSAGTGIDELL DAILLQAEVLELKA VRKGMAS GAVIEFPSLDKG\RGV\VVTVLV REGTLHKGDIVLCGFYGRVRA MRNELGQEVLEAGPSIPVEILGL SGVPAAGDEVTVVRDEKKARE VALYRQGKFREVKLARQQKSK LENMFANMTEGEVHEVNIVLK ADVQGSVEAISDSLLKLSTDEV KVKIIGSGVGGITETDATLAAAS NAILEGLFTLTSQDEFVIAPGFS TDPLEEQHSVVSGLLHKYHNR ALLLVKGGCAVNCRYCFRRHF PYAENQGNKRNWQTALEYVA AHPELDEMIFSGGDPLMAKDH ELDWLLTQVVHQHDVGRRVQ RLPFIHDALFHQQFFNQHTTF GQVHLARFFVHREVDSILFRRIS VLKKMMSPHRVKDRCYCAQFI

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9204	39572	A	9263	922	2357	GKGNDEKKLVSDQ*MGTA*RQ RIHPIPSIIPLLW/YPEGPSVSRPE AGGYNSLLMVTHGKVINNGRG ILIESD\EPGDAR*SSGSCARHGL VFWLCSCRRCMPQTIEAIQHPN A/VA VNKIDRPEADPDRVKYVL SQYGILPEEWVGESQFVHGSAG AGTGIDELLDAILLQAEVLELK AVRKGMASGAVIESFLDKGRG PVATVLVREGTLHKGDIVLCGF EYGRVRAMRNELGQEVLEAGP SIPVEILGLSGVPAAGDEVTVVR DEKKAREVALYRQGKFREVKL ARQQKSKLENMFANMTEGEVH EVNIVLKADVQGSVEAISDSLL KLSTDEVKVKIIGSGVGIVAEES LDLRYYSVIYNLIDEVKAAMSG MLSPCLKQIIGLAEVRDVFVKSP KFGAIAGCMVTEGVVKRHNPIR VLRDNVVIYEGELESRRFKDD VNEVRNGMECGIGVKNYNDVR TGDVIEVFIEIQRTIA
9205	39573	A	9264	1	748	
9206	39574	A	9265	923	1387	PPNLARCSPSAMARQSPIRSPRR PLAPSPALRAPSPAPPHAARLA VPRQA*GLLLLALIAVSTHIEMI SNTLAMGWNSPLTTVLALLAC GFACFIEMGKIPFDVAASWIIMI WSQSSTCTAPTLKPLRSVTLMR LTPVSARDLVGYFATAVRLP
9207	39575	A	9266	352	478	CDPTQRKPLYWLQALRRGLPI WRNQRFKAVR*MAMAPMFS
9208	39576	A	9267	54	811	HTTGGNPLYGI/SRQIAR*QSRV/ GPGFCQDYRDIHKLFRQEVAP TSSGLMFRLMPWVLISMLVLA MALPLFITVSPFAGGGDLITLIY LLALFRFFALSGLDTGSPFAGV GASRELTGILVEPMLILSLLVL ALIAGSTHIEMISNTLAMGWNS PLTTVLALLACGFACFIEMGKIP FDVAEAEQELQEGPLTEYSGAG LALAKWGLGLKQVVMASLFV DLFLPFGRAQELSLACLTSLV VTLLKRL

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9209	39577	A	9268	2	627	CGSIIALVAIFKSFFGHYLGTL GLNGLVLKFGYKGDCTKVS KLNTISMIFIMGSTWVVA YANPNILDLIEAMGAPIIASLLCLLP MYAIRKAPSLAKYRGRLDNVPH AITRVDLKEDGKGLKIVRQSLP YGTASGTHGLYFCAYCARLHNI EQQLLSMFGDTDAIKAYQSFLA RSAFAVSQCIPVNTVYRAYSVI QNWIAITIRHV
9210	39578	A	9269	2648	3072	LSRTGKTTFIT/LEYAASIIAL VAIFKSFFGHYLGTLGLNGLV LKFGYKGDCTKVSGLKNTIS MIFIMGSTWVVA YANPNILDLIEAMGAPIIASLLCLLP MYAIRKAPSLAKYRGRLDNVFVT VIGLLTILNIVYKLF
9211	39579	A	9270	467	614	VPLAVPYGRLWRTIFSLPSSFR STRVE*YESMLGRFFERTACLQQ KQF
9212	39580	A	9271	1	846	MSYLVWPFIASLVLSLSLIPYW NSAVIDQVDLGLSALTGHGILI TVWGGISTK\VFPLNFPNVFSF GVSKARKK*KKDFGRDFTKRC SQIISRASMLMVAVVMFFAFSC LFTLSPANMAEAKAQNIPVLSH LANHFASMTGKTTFSTILEYA ASHIALVAIFKSFFGHYLGTL GLNGLVLKFGYKGDCTKVS GLKNTISMIFIMGSTWVVA YANPNILDLIEAMGAPIIASLLCLLP MYAIRKAPSLAKYRGRLDNVFSTV IGLLTILNIVYQLF
9213	39581	A	9272	95	456	RAISMSFRMERPCCLSLPSSLCIS STRVTASSPLSGCSSCTLLWISW GRMVRNCSNT/MQLQDLLLRA HLRPKPPMAKLLPEAGFP GTSCLLEAEPSTIRDVVL IASQPASQPASQQGSQI
9214	39582	A	9273	1	1241	

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9215	39583	A	9274	3	1608	SRGFPRREFSGPSIKKKVDAPTQ AQWPVHAVITNSTYDGLLYNT DWIKQTLDVPSIHLDSA WVPYT HFHPIYQGKSGMSGERGAGKVI FEPQ* AHRMLAALSQGSILILIG EYDQEAFAFMRHSPSSPSYPI GG\SVETAAAMLRGNPGKRLIN RSVERALHFRKEVQRLREESDG WFFDIWQPPQVDEAECWPVAP GEQWHGFNDADADHMFDPV KVTILTPGMDEQGNMSEEGIPA ALVAKFLDERGIVVEKTGPYNL LFLFSIGIDKTKAMGLLRGLTEF KRSYDLNLRKINMLPDLYAEDP DFYRNMRIQDLAQGIHSRRVTA SVSSGSQANQQVNFIGDQSTAA LTLSPSGDITVTNTAPQYMTA TLQDKNGNPLKDKEITFSVPND VASKFSISNGGKGMTDSNGVAI ASLTGTLAGTHMIMARLANSN VSDAQPMTFVADKDRAVVVLQ TSKAEIHNGVDETTLTATVKD PSNHPVAGITVNFTMPQEGVYA MSLEYIILTFIALNGSRMWINS REKRTQRND
9216	39584	A	9275	106	709	LRSAEDNDTREKNKQTNRS KLRLVETSGSPPTSSSQTPDPAF RYPKKY\CVEDCS\YRPE*PRITP DNRLLYGGGVVYGARDPDVVE RLVVPKLLKTFPQLKGVKIDYR WTGNFLLTLSRMPQYGRDNTNI YYMQGYSGHGVTCNHLA AELLRGDAERFADFANLPHYPF PGRTRLRVPFTTKSAAYYSLR DRLGV
9217	39585	A	9276	140	558	RKPHRQRGEKAGRNRSDGCC EKAMSVIIVGGGMAGATLALAI SRLSHGALPVHLIEATAPESHA HPGFDGRAIALAAGTCQQLARI GVWQSLADCATAITTVHVS GHAGFGTSLSRKITTWGL*QRSW ARWIWYFPAKNYHLGALT TVV ELQMGGKRLF
9218	39586	A	9277	3799	4086	
9219	39587	A	9278	3017	3184	
9220	39588	B	9279	1	1050	
9221	39589	B	9280	1	1455	
9222	39590	A	9281	374	506	RCIALIAWLTLPVLRVTLK*RW RVARR*RAACW*S*WHHSALA P
9223	39591	C	9282	47	406	

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9224	39592	A	9283	1	4749	
9225	39593	B	9284	507	3568	
9226	39594	A	9285	101	638	RQKYSDWSSALVPTAGEPTRH TQTTRAGIAHA\EADFAADILFL LCGKDISTAGGFSFV*LADNKQ HLMPCVFANHLTVKM/PHQSPV PDH/QALISHRJRSSRGSCSRYS DNSVSRTPLSPTPGRSTMVICS PICRRKRKGSRVQAATSLTGDT SPANRALQRLLPAPVLPMMPI TGS
9227	39595	A	9286	271	532	
9228	39596	A	9287	643	768	
9229	39597	A	9288	1	1948	MCSHAAGCTIPDVEHWTRINR KVPRLVSVLPNGPDYHPTVRAF LAGGVPEVMLHLRDLGLLHLD AMTVTGQTVGENLEWRPEPGA FRQCLREQDGVPEDDVILPPEK AKAKGLTSTVCFPTGNIAPEGS VIKATAIDPSVVGEDGVYHHTG RVRVVFVSEAQAIAIKRVVIVA CGFSPTRTAHAASDIDITNTVDL RNRSQLRRGEIVQF/IPANKYR TSA*GS*LAHPTGSLCD*VGRL DIPLAANFVQR*SPPGISPTPV
9230	39598	A	9289	2166	2426	VQPGGCGL*RQHGSYRPESRTA GGRHRG*RRLRAFDGGANSS GTGICRDAFNRIHWTGRTGRP DVDSGEHRKTAEQRRDGAVR
9231	39599	A	9290	846	1022	

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9232	39600	A	9291	1	1336	MNALSKARQYVEEFDGNIA SFI FSGKPGTGKNHLAAAICNELLL RERNLGESEIHTTSDHMTATL PGETQTPEDFRDVEQRQQVVI FQHLVGCVKVDGKYIQVCTFT VGGNYGGTCLRGDES LVIKES DIEPLIVTVVQQFHIGNGYVVI TITPSEGERYQGVVGLEGRIRRT RRIRHKQSARCYNLRFKPTCAIT QTPTEVSPVLKKQLVLVNP YPGNKPNFKRVS VKIIGESASRR LQLSRGDIADALSDRFVSEAI TAKVEAAIKN*LSQYGILPEEW GGESQFVHVS AKAGTGIDELL DAILLQAEVLELKA VRKGMAS GAVIESFLDKGRGPVATVLR GTLHKGDIVLCGFYGRVRAM RNELGQEVLEAGPSIPVEILGLS GVPAAGDEVTVVRDEKKAREV ALYRQGKFREVKLARQQKSKL ENMFANMTEGEVHEVNIVLKA DVQGSVEAISDLLKLSTDEVK VKIIGSGVGGITETDATLAAASN AILEGLFTLTSQDEFVIAPGFST DPLEEQHSVVSGLLHKYHNRA LLL VKGGCAVNCRYCFRRHFP YAENQGNKRNWQTALEYVAA HPELDEMIFSGGDPLMAKDHEL DWLLTQVVHQHDVGRRVQRL PFIHDALFHQQFFNQHQTTFGQ VHLARFFVHREVD SILFRRISVL KKMMSPHRVKDRCYCAQFICP
9233	39601	B	9292	1	2890	
9234	39602	A	9293	1	822	ITQYCD SFTICLSKGLGTPVGS LVGNRDYIKRAIRWRKMTGGG MRQSGILAAAGIYALKNNVAR LQEDHDNAAWMAEQ LRETG\A \DVMRQDTNMLFVRVGEEN AAALGEIT*KP\RNVLINASPIV RLERDVPQRILVLGASGYIGQH LVRTL SQQGHQILAAARHVDR LAKLQLANVSCHKVDLSWPDN LPALLQDIDTVYFLVHSMGEAA IYRSSAGVASVSSVFRYCLRPSY DPRVFPCFLCCRALLVLPCLRIY SPLSFALVLSLAPIK
9235	39603	A	9294	1565	1825	SRMCVAIRSRNQRSCEITIAQPG NSSRAFSSARRVSISRSLVGSSSS SMLPPTCSSFARCRPRSPPESS PTRLP*STPLKLRPT

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9236	39604	A	9295	236	742	VATRCSPSPSPSLSPSLSLRVMIP TTSAYSFMITAKSSPAVLKLSN ASERVNVSGTISVLRICPLFSA RLWLASTRFSRSLEST*PMMWS ISSLQTRNLECGCSATLFFRLCS SSWRSN/TNDVFTA VTLITERDG IPAQRRFQSARVPVYVTRPPAH RLPLPRRCHQK
9237	39605	B	9296	1	951	
9238	39606	B	9297	1	666	
9239	39607	A	9298	761	1162	IILGSMAIFTILILPIHEQGMFFHL FVTSFILLSSGL*FSLKRSFTSLV SCIPRYFILFVAIVNGSSLVIWLS VFLLFVYRNACDFCTLILYPETL LKLLISLRRFWAETLGFSKYTIM SSANRDNLTSFNP
9240	39608	A	9299	82	160	
9241	39609	B	9300	64	477	
9242	39610	A	9301	408	507	LLPLFQNLLLVSYSI*LLPGLVW KGCMHPGIYP
9243	39611	A	9302	1	3141	MLLGLHSLAAFLQRESFSGKQS WGCQLAALLQRRITKMTEAMK ITLSTQPADARWGEKATYSINN DGITLHLNGADDLGLIQAARK IDGLGIKHVQLSGEGWDADRC WAFWQGYKAPKGRKVVWPD LDDAQRQELDNRLMIIDWVRD TINAPAEELGPSQLAQRAVDLIS NVAGDRVITYRITKGEDLREQG YMGLHTVGRGSPVLLALD YNPTGDKEAPVYACLLGDIITY RNGKKVEVMNTDAEGRVL
9244	39612	A	9303	1	983	MVRASGYLQTLDDFNHIVLKA SENGVPVYL RDVAKVQIGPEM RRGIAELNGEGEVAGGVILRS GKNAREVIAAVKDKLETLKSSL PEGVEIVTTYDRSQLIDRAIDNL SGKLLEEFIVVAVCALFLWHV RSALVAIISLPLGLCIAFIVMHFQ GLNANIMSLGGIAIVGAMVD AAIVMIENA/R*TAGRVAAPAS* RHAG**NALAGQEGRLFGPLAL HQNVCDDGGCGAAGDRSDPD GLLDPWQNSAGKQ*PAQSLFDS CLSSAVAESTALAEHAAGGG AFGADGSLAAQ*SSPGEFLPQIN EGDILLYMPCDAAQGIQRRR
9245	39613	A	9304	362	436	
9246	39614	A	9305	101	208	
9247	39615	C	9306	1	882	
9248	39616	B	9307	1	822	

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9249	39617	A	9308	668	826	VNSHSQLLQRE*NT*ESNLQGM *RTSSRRTTNHCSRK*KRIQTNG RTFHAHG
9250	39618	A	9309	497	1042	LPRIPTVLTSGVRRDGYRRFG RRPSG*PGNWSSSPVEKSATRT LRITGTSAIPSEAITGSSAVVRR VPAGKTTAPTEIKSTPVSANSRS VLSVTLPDTSSSALPLVRLTASR ICSVSKLSSMMISAPAFRASSSS SRFSTSTSTGASGCSQDAFSTA WRTEPEAIIWFSLIRKASESPRR
9251	39619	C	9310	1	3447	
9252	39620	A	9311	570	647	
9253	39621	A	9312	1071	1323	RPPPHRLSGCYHPSHRRPVHGF HHA*RQRQFRR*TVDTLPADAP LPSPHPAHRPL/TSIFCPVSTMA DNASM*RNSCCRLSARG
9254	39622	B	9313	1	2585	
9255	39623	A	9314	133	357	SSFFQFCEEIHW*LDGDGIESIN YLRQ*GHFHKIDPSYP*AWNVL PFVCVLFHFIEQWFVVLLEEVL HIPCKLYS

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9256	39624	A	9315	1	2680	MLVLPLFQPFMRILDHDDSSID HRPDGNRNATQRHNIGIQSLEV HDNKSNTQPQRQRNNRHQRRRA HMPEKQRTDYRRDPLESPKAA AACLFPAIADPNTPPVFTPPASL PTTGM/FDSPPFNRDA*MVMRS LIRSMTVARAVIGVAICNKGLP ATMMALAAQHNIATVLPVGGGA TLPKADGEVNGKVQTIGARFA NGELSLQDARRAGCKACASSV RRSCQFLGTAGTSQVVAEGLGL AIPHSALAPSGEPVWREIARAS ARAALNLSQKGITTREILTDKAI ENAMTVHAAFGGSTNPLLHIPA IAHQAGCHIPTVDDWIRINKRV PRLVSVLPNGPVYHPTVNAFM AGGVPEVMLHLRSLGLLHEDV MTVTGSTLKENLDWWEHSERR QRFKQLLLDQEQINADEVIMSP QQAARGLTSTITFPWQYAWIL HPDLDPETLLKLLISLRFFWAET PVGKNRITQMTNARHRTGFQG VTIHHTGVQFMGFITRKDSANS GVKQWTLFQQTHRFRHHIQR FARFQHFLPGFNNGRQRLLDVAS VFMEFTTGLMSLDTALNEMLS RVTPLTAQETLPLVQCFGRILAS DVSPLDVPGFDNSAMDGYAV RLADIASGQPLPVAGKSFAGQP YHGEWPAGTCIRIMTGAPVPEG CEAVVMQEQTQMDNGVRFT AEVRSGQNIRRRGEDISAGAVV
9257	39625	B	9316	1	2577	
9258	39626	A	9317	2	772	AFGASLAQDKPNTGTG*KSPSH PALLRVLDIGKICHLARKVGAVS VVDNPFIRPALQNPLALRADLV LHCTKYLNHSDVAVGVVIA KDPDVVTELAWWANNIGVTG GAFDSYLLLRGLRTLVPMELE QRNAQAIVKYLQTQPLVKKLY HPSLPENQGHEIAARQKGFGA MLSFELDGDEQTLRRFLGGLSL FTLAESLGGVEKLISHAATMTH AGMAPKARAAAGISETLLRIST GIENGENLIADLENGFPA
9259	39627	B	9318	68	1895	
9260	39628	A	9319	1	636	
9261	39629	A	9320	1	942	

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9262	39630	A	9321	479	969	MPSTSQ*I/ISED FVELNAARYR DEEIQRTPQRYSSRRPTQRHIIV RFTKVEIKEKMLRAAREKGGV AHKRKPIRLTADLSAETLQARR EWGPTFNILKEKNFQPRISYPTK LSFISEGETKSFTDKQMLRDFGT TRPPLKELLKEALNMERNNRY QPQQKHTKL
9263	39631	A	9322	1	652	MGKKQSRKTGNSKNQSASPPP KERSSSRAMEQSWTENDFDEL REEGFRRSNYSELKEEVQTHGK EDKNLEKKLDEWLARIINAES LKDLMEKTKARELCDECTSL SRFDQLEDGVSVMEDMNEMK SEGKREKRIKRNEQSLQEIWD YVKKPNLCLIGVPESDRKNGTK LENTLQDIIQENFPNLSGQANI HIQEIQRTTPQRYSLRRATP\RH LIVRFTKVEMKEK\MLRAAREK GRVTHKGKPIRLTTADLSAETL QAR/TEWGPIFNILKEKNF\QPR ISYPAKLSFISEGEIKYFIDKQML RDFCHHQGLPLKELLERKALK HGKGNQ*PPPKERSSSRAMEQ SWTENDFDELREEGFRRSNYSE LKEEVQTHGKEDKNLEKKLDE WLARIINAESLKDLMEKTKA RELCDCTSLSSRFDQLEDGVS VMEDMNEMKSEGKREKRIK RNEQSLQEIWDYVKKPNLCLIG VPESDRKNGTKLENTLQDIIQE NFPNLSGQANIHIQEIPENATKIL
9264	39632	A	9323	403	410	VFLIRWGGKPLKRKLYFLHCSI TQALV*ACQGYLG*IVGAKNI KYIDFFITASRYLRMLAQVFE*I LLLREVTRY
9265	39633	A	9324	174	1252	

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9266	39634	A	9326	1	1049	MHRSDMSCPDKVDILDTTAFRI AINEVKHSLTSVTVTKVLDMF ISRSSLFPIDDDGLDDGHSDQVG VLNSPTCYSAHQNGERIERFSR KVFVGGGLPPDIDEDEITASFRF GPLVVDWPHKAESKSYFPPKG YAFLLFQEESVQALIDACIEED GK\LYLCVS*PLLSKDKPSSKYV PWNLSDSDFVMDGSQPLDPRK TIFVGGVPRPLRAVELAMIMDR LYGGVCYAGIDTDPELKYPKA PGRVAFSNQQSYIAAISARFVQ LQHGDIDKRVEVKPYVLDDQM CDECQGARGCGKFAPFFCANV TCLQYYCEFCWANIHSRAGRE VHIPLVTESAVAAPRIHIPWT
9267	39635	A	9327	2	126	
9268	39636	A	9328	1	1327	IASNSWNASSSPGEAREDGPEG LDKGLDND AEGVWSPDIEQSF QEALAIYPPCGRRKIILSDEGKM YGRNELIARYIKLRTGKTRTRK QVSSHIQVLARKKVREYQVGIK AMNLDQVSKDKALQSMASMS SAQIVSASVLQNKFSPPSPLPQA VFSTSSRFWSSPPLLGQQPGPSQ DIKPFAQPA YPIQPPLPPTLSSYE PLAPLPSAAASVPVWQDRTIAS SRLRLLEYS AFMEVQ RDP*TRT SKHLFVHIRHTDRNPRRFFRTPP LGP\VDVR\QIYDPNFPEKKGGL KELYEKGPPNAF\FLVKFWADL NSTIQEGPGA FYGVSSQYSSAD SMTISVSTKVCSFGKQVVEKVE TEYARLENGRFVYRIHRSPMCE YMINFIHKLKHLPEKYMMSV LENFTILQVVTSRDSQETLLVIA FVFEVSTSEHGAQH HVYKLVK
9269	39637	A	9329	2	339	
9270	39638	A	9330	1505	1876	TYGCASPSRKPRV MPLVTAQVP ITALRVNSSIPAQSAVETTSNR PPTTGVP AFRPVRAAV*AVIS PQ ISADPTTGGA*LISAIPQS VRH GSYSRRLML*RLDSEILLSSQPL TPVKHQRR
9271	39639	A	9331	1	1710	
9272	39640	A	9332	1	1191	

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9273	39641	A	9333	838	1365	STETLSPLPATPGEVTLRHLDV VSAEQQMFSGLVEKIQVTGSEG ELGIYPGHAPLLTAIKPGMIRIV KQHGHEEFIYLSGGILEVQPGN VTVLADTAIRGQDLDEARAME AKRKAEEHISSSHGDVDYAQAS AELAKAIAQLRVIELTKKAM*H RLEKHKSQSGNRLAFFCACDPS
9274	39642	A	9334	3	601	MLSAVGYQP/TLAEEMGVLQE RIPSTKTGSITSVQAVYVPADDL TDPSPATTFAHLDATVVLRSRQI ASLGIYPAVDPLDSTSRQLDPL VVGQEHYDTARGGQFILARYQ ELESLLVAILGMNDLSEEDKL VV ARARKIQRFSLSQPFFVAEVFTGS PGKYVSLKDTIRGFKGIMEGEY DHLPEQAFYMGVSIEEAVEKA
9275	39643	B	9335	681	1071	
9276	39644	A	9336	203	2189	VASSARRGLPVHGPAPLQGGPN SQDRL/ESGTNRCLGRPLVKG GKGGRFPSARLIQTVKKGGTPS RDHANIEPSGY/SVSAGVGEIRTR KGSVFAHEMPDCNVIDKVSLV YGQMTPEPPGNCMRVALSGLTM AEKFRDEGRDVLLFVDNIYRYA LAG*ERFATVGR*ASN/AVGIQP TLAEKMGVLQERITSTKTGSITS VQAVYVPANDLTDPSPATTFA HLDATVVLRSRQIASLGIYPAVD PLDSTSRQLDPLVVGQEHYDTA RGG*SILQRFQELKDFMALP/G LSDELSEEDKL VVARARKIQRF LSQPFFVAEVFTGSPGKYVSLK DTIRGFKGIMEGEYDHLPEQAF YMGDMAMTYHLDVVSAEQQ MFSGLVEKIQVTGSEGELGIYS GHAPLLTAIKPGMIRIVKQHG EEFIYLSGGILEVQPGNVTVLAD TAIRGQDLDEARAMEAKRASG KVKPSIMQSLTPEKIAAILPLQF FPQPADFTGPYVMLTSRRNNRA LSRCDDQTLMPGLAIRGIRHRH QQAGVRILLNNAIEHVVDGEK VELTLQSGDTLQADVVIYGIGIS ADEPLAREANLDTANGIVIDEA CRTCDPAIFAGGDVPITSSLINV VDEIHDILLTQPVATRYCIVKVI FEAVMILRDSGGAPFCNSGMAT

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9277	39645	A	9337	905	2319	SRQAQWKGV PSTFSVINYHSLQ KRTTNLTHRQLNLLSTVLYCS CPSIQKLLMLQTGQPSGVGLV DLPLKAMSRPALPNATAALPTG TRTQPPSTPLLTRLPSHRLLLH SGF*AAALLGVSEMTIRDLNN HSAPVLLGGYIVLEPRSASHY LLSDQKSRLVEEKRAAKLAA TLVEPDQTLFFDCGTTTPWIIEA IDNEIPFTAVCYSLNTFLALKEK PHCRAFFPCGATPFSNPSIFSKRV NNFCRDIAFYYSAGVHVS KGV TCFNLKRWPVKQWAMSMAQK HVLVVDH SKFGEVGPVCMGDL KRFDIVVRECCPEDEYVKYAQT QRIKPDK VSRHPVIIRLREPGLE PVMEFHHPVLPQRTTESAVVHI AHTRKSWRPEHSAPVLIQTSPV ERGPQYIQC YQLSLTSEENNQP DTQTTTKPAQYSSILFLSKYPKV IVDAPDRSTQRGWSSGLATQSN EQACTTKCNSCTANWHQNTTT FNSTANPSTFKPPTS AALRVLSL WTGNHCDWCFIRYWRLTPNW QRFRRVGRTERATTHNRLQAF GGHTQGLSPGPRRWLHEQRFP TSDTGGHTADDFRKLDP CIQGP YGSHRHSVKSEVNFKEKRYAF APAASFRYTVLIRFCAPPNTGRF LLTGTPMLSYRHSFHAGNHA DVLKHTVQSLIIESLKEKDKPFL YLDTHAGAGRYQLGSEHAERT
9278	39646	A	9338	98	596	YSGIIMAQSKLYPVVMAGGSGS RLWPLSRVLYPKQFLCLKGDLT MLQTTICRLNGVECESPVVICN EQPRFIVAHQMRQLNELSENIIL EPAGRTTAPTIAPAALANRHS PESAPLMLVLATDHVIANEDAV RAPVK\NAIPYPKKGKLVTFGIG LDGRVPRYNM
9279	39647	A	9339	2	437	LECPGRSTANCSPRARATSLLL LTHVHGSRDRAQEMVDLLAQ YEQHGLQLNSRELDPHLPYLE YLAQLPQSEAVEGLKDIAPIAL LSARLQQRESRYAVLFDLLKL ANTAIDSDKVAEKIA/VRSAR*Y AAGAGCCLGRRAG
9280	39648	A	9340	152	334	HLSPQYGSIPRVISRMGGKLIIM DHFHYGRDSILLSME*TLALDA NLQFLYVVLPPNYL
9281	39649	B	9341	1	1401	

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9282	39650	A	9342	86	2063	
9283	39651	B	9343	1	885	
9284	39652	A	9344	1	101	MDDNITYTTFICNPLNLSPPRR MLIITGPNMGGKSTYMRQTALI ALMAYIGSYVPAQKVEIGPIDRI FTRVGAADDLASGRSTFMVEM TETANILHNATEYSLVLMDEIG RGTSTYDGLSLAWACAENLAN KIKALTLFATHYFELTQLPEKM EGVANVHLEHGDHGTMAFM HSVQDGAASKSYGLAVAALAG VPKEVIKRRQKLRLELISIPNA AATQVDGTQMSLLSVPEETSPA VEALENLDPSLTPRQALEWIY RLKSLGKTMPTSTRYQKINAAH YRHIWVVGDIHGEYQLLQSRL HQLSFFPKIDLLISVGDNIDRGP ESLDVLRLLNQPWFSTSVKGNH EAMALEAFETGDGNMWLASG GDWFFDLNDSEHQEAIDLLKLF HHLPHIIEITNDNIYAITTCVGN ARRAHAVHFCGDVARLLTCQI NIYRGQFRRLPRTFHRRLTKL RDLILRLSAGNLQCCPDRAWRD NIHPNTFLRDLFCQATAVVQNR RLRSRIGDRFLGAVERRFNDL PSSPVEWLTONGSCYRANETRQ FARMLGLEPKNTAVRSPESNGI AESFVKTIKRDYISIMPKPDGLT AAKNLAEAFEHYNEWHPHRAN PITYQAVCANHYRTLNGTMT NTG*QYNVYHIYLQPAESVAA APHVDHHRSEHGR
9285	39653	A	9345	1062	1179	PRFVPILAPYAPVRSVCLR*V*T DLPEYGHILFQADR
9286	39654	B	9346	1	2439	
9287	39655	A	9347	136	629	RSVTPVTDIVKLEFTRLRLPGY TKSIE*TNITFQCAIAAA*KNSVS TPRGGGTGTNGQALNQGIIVD MSRHMNRHIEINPEEGWVRVEA GVIKQDLNQYLKPFYFFAPEL STSNRATLGGMINTDASGQGS/ LGVRAVLLGGDILDTPQLPVEL AETLGKSAE
9288	39656	B	9348	1	4653	
9289	39657	C	9349	584	819	

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9290	39658	A	9350	1	765	MQEWGRYTILSGCCNSALKGD VCLLYGFRVAGRRQASELQELT IGYRAQKNRVSSWCYCHFRQM AKAQHIKGFNLRLRKTAKK*GF QLVLLPFSANGK\AQHIKGFNL RLRKTAKKTRDFLTRMPKLG TMVGVDPALVLCYRDEYKLAL GEERGEFNVLLANEWLASALE QPVATVSGESWYFFGHCTEVT ALPGAPAQWAAIFARFGAKLE NVSVGCCGMAGTYGHEAKNH ENSLGIYELSWHQAMQRLPRN RCLATGYSCRSQVKRVEGTGV RHPVQALLEIHK
9291	39659	A	9351	1	1710	
9292	39660	A	9352	1377	1712	IFRASLNQLLFCGLLAGRNHRQ RSVRALSQRKMVPTDRK*RCA RRAAR*PSARVL*SGE*TDRQH AD*PTIR*RRSWYLRPAVYASV RQSDRLYSDEYHW*PVRLQRY VRR
9293	39661	A	9353	203	1293	VASSARRGLPVHGAPLQGPNG SQDRL/ESGTNRCGLRGPLVKG GKGGRFPSARLIQTVKKGGTPS RDHAIIEPSGY\SVSAGVGERTR EGNDFYHEMTDSNVIDKVSLV YGQMNEPPGNRLRVALTGLTM AEKFRDEGRDVLLFVDNIYRYT LAG*ERFATVGR*ASN/AVGYQ PTLAEEMGVLQERITSTKTGSIT SVQAVYVPADDLTDPSPATTFA HLDATVVLSRQIASLGIYPAVD PLDSTTRQLDPLVVGQEHYHTA RGG*SI\LRQFQELKDFMALP/G LSDELSEEDKLVVARARKIQRF LSQPFFVAEVFTGSPGKYVSLK DTIRGFKGIMEGEYDHLPEQAF YMVGSIEEAWEKAKKL
9294	39662	B	9354	1	505	
9295	39663	A	9355	604	789	TMVASGSRMTST*SRGSVNG CRTILRWKRHSSPLKIKRKQKS L*TMPSF*RLPAENSLFEI

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9296	39664	A	9356	1	1514	SVAVLRE*APKIRIQLATMPELA DASSDQQDNGAEMNLVYDRD TMARLGIDVLAANSLLNNAFG QRQISTIIYQPMNQYKVVMEVD PRYTQDISALEKMFVINNEGKA IPLSYFAKWQAPANAPLSVNHQG LWRAL\TIWFTLPTGKSLC\DP AAIDRAMTQLGVPSTVRGSFAG TA\QVFQETMNSQVILIIAAIAT VYIVLGILYESYVHPLTILSTLPS AGVGALLALELFNAPFSLIALIG IMLLIGIVKKNAIMMVDFALEA QR\HGNTLPQEAIFQACLLRFRP IMMTTLAALFGALPLVLSGGDG SELRQPLGITIVGGLVMSQLLT LYTTPVVYLFFDRLRLRFSRKP KQTVTDTRWQLWIVAFGFFMQ SLDTTIVNTALPSMAQSLGESPL HMHMVIVSYVLTVAVMLPASG WLADKVGVRNIFFTAIVLFTLG SLFCALSSITIRILRFVSLHMR. WQFRDLTFWQMRFRNTPTITSG GSDDSLMNQSHQRSVSSI
9297	39665	A	9357	3218	3337	
9298	39666	A	9358	252	771	RRCQILLSGSLHSSWRTLPGHV *QLASAHRRPRFR*LPGLEPGEL FVHRNVANLVIHTDLNCLSVV QYAVDVLEVEHIIICGHYCGG VQAAVENPELGLINNWLHIRD IIHGWAYGIHDGLLRDLDTAT NRETLEQRYRHGISNLKRDVHF TTGRFIQQRTRNRQLRFAQA
9299	39667	B	9359	604	831	
9300	39668	B	9360	1	1104	
9301	39669	A	9361	242	337	LTVIHGVSAKTVILSSAVPIQ*K TVRRVSRR

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9302	39670	A	9362	2208	3411	LAADHRRRNAVQRPCNGGQSV QSTDEAAGRLSHADTHPGRPA RALPGDCRPETLLRTAGVAE*T KALYTLRSEKTRERPMDKQQA SDEKHRRFHDKESDFLA/FVNL WNY/LGEQQKALSSNAFRRLCR TDYLNLYLRVREWQDIYTQLRQ VVKELGIPVNSEPAEYREIHIAL LTGLLSHIGMKDADKQEYTG RNARFSIFPGSGLFKKPPKWVM VAELVETSRLWGRIAARIDPEW VEPVAQHLIKRTYSEPHWERAQ GAVMATEKVTVYGLPIVAARK VNYSQIDPALLHDTIELGTSPAF LITRWGFGRNLSRTSGGPRQEP RRKEIAMELVLKDAQSALTVSE TTFGRDFNEALVHQVVVAYAA GARQGTRAPKTRA AVTGGMPT LYAVGRLSRIPMDT
9303	39671	A	9363	79	559	TLSPGSINPFKEKPN*DSVPMTL/ RRFIEVRVFQQIHHRQRP AHLW
9304	39672	A	9364	1	655	THWER/A/QGAVMATEKVTVY GFRIVAARKVNYSQIDPALCRE LFIRHALVEGDWQTRHAFFREN LKLRAEVEELEHKSRRRDILVD DETLFEFYDQRISHDVISARHFD SWWKKVSRETPDLLNFEKSMLI KEGAEKISKLDYPNFWHQGNL KLRLSYQFEPGADADGVTVHIP LPLLNQVEESGFEWQIPGL/RRE LVMPD*SCQTVTEFVPANSHSY

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9305	39673	A	9365	1	2082	MDIQEFPDLKGTTSLLEILTLTRA GIRLLPSGMCQQLPRLRVLELS HNQIEELPSLHRCQKLEEIGLQH NRIWEIGADTFSQLSSLQALDLS WNAIRSIHPEAFSTLHSLVKLDL TTSQLTTLPLAGLGGLMHLKL KGNLALSQAFSKDSFPKLRILE VPYAYQCCPYGMCASFFKASG QWEAEDLHLDDEESSKRPLGLL ARQAENHYDQDLDELQLEMED SKPTPSVQCSPTPCFPKPEYL FESWGIRLAVWAIVLLSVLCNG LVLLTVFAGGPAPLPVKFVVG AIAGANTLTGISCGLLASVDAL TFGQFSEY/GLARWETGLGCRA TGFLAVLGSEASVLLLTAAVQ CSVSVSCVRA YGKSPSLGSVRA GVLGCLALAGLAAALPLASVG EYGASPLCLPYAPPEGQPAALG FTVALVMMKLLLFSWFVGPLP YHQNWYCDLPRGDFAVWDC AHGEATWAWPHLRKTGLLYCP VAFLSFASMLGLFPVTPEAVKS VLLVVLPLPACLNPLLYLLFNP HFRDDLRLRTPRRRTQGPP*PL CCGREDAGERASCDSYPQALV APSLMWISFCEAS*SWAGPLEL ETYGFPSVTLISCQQPGAPRLEG THCVEPEGNHFGNPQPSLDGEL LLRAEGSTPASGGLSGGWRLSA LWLGLWLHTCKYPSFFSSPLF PFLSPPSVNDGCF
9306	39674	B	9366	1	510	
9307	39675	A	9367	88	246	TPMRPMKSPMPTPVSRSGSSSK MG*SSASL*RSIPGLDAGKTPW PAGRSGTWA
9308	39676	A	9368	693	1041	AEGYSQCPNAREGHVDEENED SAPAAQKIP*I*ED*SPHVSQPVP EGEEECVKKQ/GRFSWNTSTS* RQT/TARKKLLADQAEARRSKT KEAHKSYEEHLQAKKEEIIKTL SKEETKK
9309	39677	A	9369	1	1911	

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9310	39678	A	9370	1	921	MWRSIFLDSRYLLSSRRKILILLI HVTFSGIRALAVPFRLPVEKMS FIFMGDVIHRMLTATQYVAPL MANFNPGYSDNSTVVYFDNGQ QIRKLIKDGLIIRKPVTVHSRAR CRKNTLARRKGRHMGIEFACFC CVFLTPALICMCAVRLLTRDP YLASGDQPLERATGEHASMHE YPGELG\QPPGLYPSSHPPGRA GTLRALSQRDTFADTPGSRNS AYTEL*DSCVDMETDPSEGPGL GDPCE\GTPPARQGSWEDEEED YEEELTDNRNRGRNKARYCAE GWGPVLGRNKNELEGWGRGV
9311	39679	A	9371	3	740	ELFPFAAAAAAMSMLRLQKRL ASSVLRMWQRTNGLG*TPMRP M*SPMPTPRQQIPEAHQRWAD HP/LSLVTGPFPGSMPEKTPLA\ AGEGAGQHGA LGKAGRGT SQ MPGMPGEGQHGLRRIEDFGAG LLQKDTGEI*RRSDRPHVFTAC YLEGEGGMLFQKQGGFFMGTL PQG*RQDKGPQRSFLADQA*RP QGLRTKESTESASEERLPGQRK EENQRLYSKEGRRPRNKNLPL GSVHTWPLVIT
9312	39680	A	9372	1	2229	
9313	39681	A	9373	3	1560	SGPNSLKFYDWGETVPQPWPIF GLSPAFGFPLCFPRGLGETIFSSR PHIR/RNYPELQKRLNGWLSAA LKTARILTVCAV MLLLSAWG LFD FWNWLQNGAGQKNP*NIP D/LRIRNSILFL/LSAVGWTVLA\ SLIENRLASDI\HGRPL\ SARTR TLLTLFRNALAVIISTITIMIVLS EIGVNIAPLLAGAGALGLAISFG SQT LVKDIITGVFIQFENG MNTG DLVTIGPLTGTVERMSIRSVGV RQDTGAYHIIPWSSITTFAN\FV RGIGSVGANYDVDRHEDADKA NQALRDAVEDDETRFTSESSPIL RCCQREG LGLKAVVQILLSHGR NGLPGEPASSQGLSAASSTPVF HLALQIDSAPDNIDWVEMLFNK NMVTERLQNV MVLEQCFS DSS SLYRFLTYSYLLAFNVWLL LAP VTLCYDWQVGSIPLVETI WDM RNLATIFLAVVMALLSLHCLAA FKSRVTASIPGCIKAHAVENVL TTKSKTRIYPEVVVQSG LQKQK GKGSVMFIEAAGL

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9314	39682	A	9374	3	276	VRQYR/LGN/MHQQRMAEMID ARQQQAFGEAGACWGGCPKHR VMLDASGKPGNDLCAGYQRD VRHLPRYLKAMADLLAHGRPA SDIMHAHLLV
9315	39683	A	9375	102	916	RSLLAIFNHW*\KRDL\GKFLVW NIKW/AFAKFCRSAGQTSGRSVI VEHNGEYACDHYVYPQYRLG NMHRQRMAEMIDSRQQQAFGE DKFKQLPAQCRSCNVLKACWG GCPKHRFMLDASGKPGNLNYLC AGYQRYFRHLPPYLKAMADLL AHGRPASDIMHAHKKVFKRGT ACSGFQKGGPLFRSRTGYCPTL RKKAPCPKTGLLGKKWTPQRR NSSGKSCAKRRGDPPLENRFN GSRVQRKPQWNSCTGHPENN FPNYGGTPYPQRMWPL
9316	39684	A	9376	338	1155	SIFISIGNLAANDLSPSRJARLQK ILHSYVPEEIRDGNQVRVTSWD GRKWGELEGDTYDRVLVDVPC TDRHSLHEEENNIFKRSRKKE RQILPVLQVQLLAAGLLATKPG GHVVYSTCSLSHLQNEYVVQG AIELL\PINTASRYRWKI*LTSEG FSWTHFVSSQSCPGWGAGNTK TSLAILALCTSAKCVGWT*YPP QSLKQEYQRVYVSGCTRNWKL GPVAEMHSRSLHPVRVFLQFS AIRSRFAVLLSNCGASAWFPT SLINPYPIS
9317	39685	C	9377	157	453	
9318	39686	A	9378	486	1195	ARPQQYEQVPGKAEASEWERG SSAPTGPGGHAAAAAGGVGGG EGSPPALHGRGARAG/GAGICM GLRQQLNR*AMDLTGAGGPAR AGAAGAVARGGGRHQGPAG GRGRGLGFAAGTAEPRGAPHR PLQRALPPIRREPGERHRAPRAG AAPQCGSARPRQPRAPQSLRAG ALPEAHAQGGQPARTHPAEPGP AARRAQQLCRHWD*GRGRPG PPDALRGGAASDFRLSARTPICR
9319	39687	A	9379	10	1278	

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9320	39688	A	9380	1	1305	MECVCVKEKEREKEGKEEEE EDEAVAERGKGERRGERGE RKREKETYTEKNRYRDTKRDR DRERKEPYEIPSSLIGHGDPKDE LDRNLALKQVKTYWVIQFSKSI EVIEKRMAVLNEQVKEAEGSS AEYKKEIEELKELLPEITEKTED AKESQTTGNVAELALKATLGG GSSVS/SIASRKPTDGASSSNCV TDISHFVRKKRKPEEQSPWKDD AKKVKQELEVNNGSGDAVPSG NEVLENMEEEEAENRVESRAAV EGTVEAGATAESTAYMYDIPA MYQENTAVSKTDEVSDLIHKL AQTDLLAQERAGKRASPDGG SAEGQAQSDRQEATKQRHKQE AGDRHYDKQMLEYQGAHEL SSREKRKEKKKKPPHGRLPPTP VALHGAKRRLLTKRLFNASPN KPKGHOSTQFSVMSQAEQQPVL
9321	39689	A	9381	67	458	WDMANSCKDVTGPDEESFLY FAYGSNLLTERIHLRNPSAAFFC VARLQEQGVKSGMYVVIEVK VATQEGKEITCRSYLMTNYESA PPSPQYKKIICMGAKENGLPLE YQEKLLKAIEPNDYTGKGSEENE
9322	39690	A	9382	139	710	WDMANSCKDVTGPDEESFLY FAYGSNLLTERIHLRNPSAAFFC VARLQDFKLDFGNSQGKTSQT WHGGIATIFQSPGDEVWGCVW KMNKSNNLSLDEQEGVKSGMY VVIEVKVATQEGKEITCRSYLM TNYESAPPSPQYKKIICMGAKE NGLPLEYQEKLLKAIEPNDYTGK VSEEIEDIIKKGETQTL
9323	39691	A	9383	1	731	MANSCKDVTGPDEESFLYFA YGSNLLTERIHLRNPSAAFFCV ARLQLLIESPRMSRLAKFWPRT HAVILSKTERTSFWPLKPQKWE SGSDTPYSQTRKDFKLDFGNSQ GKTSQTWGGIATIFQSPGDEV WGCVWKMNKSNNLSLDEQEG VKSGMYVVIEVKVATQEGKEIT CRSYLMTNYESAPPSPQYKKIIC MGAKENGRLKYQEKLLKAIEP NDYTGVVSEEIEDIIKGGTTKL
9324	39692	A	9384	41	333	MFCNTDLGT/LLCTDVVARGLD IPQVNWIVHYDHPDDPKEYIHR VVPFVVDLNVNGNEGKQKKRG GGGGFDYQKIKKVEKSKIFKHI SKKSSDSRQLSH

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9325	39693	A	9385	3	1852	SKQKPMNVGLSETQNGGMSQE AVGNIVTKSPQKSTVLTNGEA AMQSSNESK K K K K K R K M V NDAEPDTK KAKTENK G K S E E E SAETTKETENNVEKPDNDEDES EVPSLPLGLTGAFEDTSFASLCN LVNENTLKA I K E M G F T N M T E I Q HKSIRPLLEGRDLLAAAKTGSG KTLAFLIPAVELIVKLRFMPRNG TGVILSPTRELAMQTFGVLE LMTHHVHTYGLIMGGSNRSAE AQKLGNGINIIIVATPGRLLDHM QNTPGFMYKNLQCLVIDEADRI LDVGFEELKQIKLLPTRRQTM LFSATQTRKVEDLARISLKKKEPL YVGVD D D KANATVDGLEQGY VVCPSKR F L L L F T L K K N R K K KLMVFFSSCMSVKYHYELLNYI DLPVLA IHGKQKQNKRTT T T F F Q FCNADSGTLLCTDVAARGLDIP EVDWIVQYDPPDDPKEYIHRVG RTARG\NNGRGHALLILRPEELG FLRYLKQSKVPLSEFDFSWSKIS DIQ\SQLEK L I E K \ N Y F L H K S A \ Q EAYKSYIRAYDSHSLKQIFNVN NLNLPQVALSFGFKVPPFVDLN VNSNEGKQKKRGGGGGFGYQ KTKKVEKSKIFKHISKSSDSRQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9326	39694	A	9386	1	2703	MAQQATLCSMKGCMRALVAQ LKSESEDLQQT VQAKREVPSK VPAAEKRESGPKQAAVNAAVQ RVQVLPD VDTLLHFATESTPDG FSCSSSLSALS LDEPFIQKDVEL RIMPPVQENDNGNETESEQPEE SNENQDKEVEKPDSEKDLLDDS DDDDIEILEECIISAMPTKSSRK AKKLAQTASKLPPP VARKPSQL PVYKLLPAQNRLQAQKHVSFTP GDDVPRVYCV EGTPINFSTATS LSDLTIESPPNELATGD/GVRA/S IQSGKSHKPF RVKK/IMDQVQQ ASSTSSGANKNQVDTKKKKPTS PVKPM PQNTEYRTRL PNEDR VRGSFALDSPHHYTPIEGTPYCF SRNDSLSSLDFDDDDVDLSREK AELRK GKESKDSEAKVTCRPEP NSSQQAASKSQASIKHPANRAQ SKPVLQKQPTFPQSSKDGPD RG AATDEKLQNFAIENTPVCFSRN SSLSSLSDIDQENNNNKESEPIK EAEPANSQGEPSRQLSQQNLTK QASLSKNASSIPRSESASKGLNQ MSGNGSNKKVELSRMSSTKS SGSESDR SERPALVRQSTFIKEA PSPTLRRKLEESASFESLSPSSRP DSPTRSQAQTPVLSPLPDMSLS THPSVQAESSEKAKSEDERHVS SMPAPRQMKENQVPTKGTWR KIKESDISPTGMASQSASSGAAS GAESKPLIYQMAPPVSKTEDV
9327	39695	A	9387	2	193	QSSE*NIQGPCNVWSSR*RWER SKGRRHLSSASRPLSALSTLRFT SVSQHAAKRVVVIRPQQQ
9328	39696	A	9388	395	761	SMQKKPRPIAHRQRCRAAMAA/ GQQPQIPITTGTGVVYPGAITM ATTPSPQMTSDCSSTASPEPS LPVIQSTYGMKTDGGS LAGNQ MINGEDEMAMYDDYEDDPKS DYSSENEAPEAVSAN
9329	39697	B	9389	1	477	

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9330	39698	A	9390	167	890	LSGARSSQGRLPWGRGDAVSTS TSRRNPRTGASDERNNHEPGKN SPYLQAQ\VRIGGKGTARRKKK VVHRTATA\DDKKLQF\SLKKL GVNH\ISGIE\EVNM\FTNQGTSG STFNNP*KVQAISWAANTFHPL PGPCWRPKPADKKWLPQPSLN PSLGAG*S*LRFKGR LARSFLPP NNP\VDGKATHLPTG\KDDDD\ KVPRSLWRILMLPKNEGKLEL RSTS*R*NLEEV\TGSRYFKIMT AF
9331	39699	A	9391	2	315	GAASLLRAGPGSSGSDP\PLSSR FVERRGALYRSPMNQENPPYP GPGTAPYPQYGWQGGPQEP KTTVYVVEDQRRDELGPSTCLT ACWTALCCCCLWDMLT
9332	39700	A	9392	263	680	LLLPA\VTSA\PLPPAGLATCPCP RLAQLGIGRAAPQKRSPRRNP EASRGRPPDG\WRAPLR\VPPT PRETEPQRRGDPGLRNPCLSQA SPGAPQFSGP/PPGSPGTRPVRA* SPPGPSWVGPGPLHLTSP\LPNRL DNGRV
9333	39701	A	9393	2	537	SGARLLLTCSETGAASLLRAGP GSSGSDP\PLSSRFVESRGALYR SPMNQENPPYPGPGTAPYPP YPPQPMGPGPIGGPYPPQGY YPRIPTVRLAGWTSGSLLKTTV LLWVGRPK EEMKLG\TIHLPSQP AGTGLCLLLSLGTWFTLTRTRP RPFLFLASSAANLLTG\PCPHLF
9334	39702	A	9394	3	470	PKAKKEAPAPPKAEAKAKALK AKKAVLKGVHNHT\QKKKIHTP LTFQRPKSLRLRRQPKYPRKSA PRRNKLDHYAIIKFPLTTESAM KKIEDNNTLVFIVDVKANKHQI KQAVQKLYDIDVAKVNTLIRPD GEKKAYVRLAPDYDALDVAN KIGII

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9335	39703	A	9395	1	1144	MLYQVLMVDTGTRGEGAF LKYRKPACPTALGFMFPRSHGLTA DTVLVSSLSRWFLWRRLLLLLL LLLLNLPLQKAVHRKATPESAI ADCSGPRDCAPWVKFAMLELH SFKCPAGEYWSKDVCCKNCSA GTFVKAPCEIPHTQGQCEKCHP GTFTEKDNYLDACILCSTCDKG DFYGGKKTAVHEALCDNIDTRT VMEEMRALVSQCPLYMAARK AERRRPNRALLENIAMYLTHM LKIFGAIEESPLGFPVGGPGTN LNPIENGGMDFLTTSVSLRKT HRVSNGQNSVCRSVSYWKPKC TFCSLTHITYIRYLELRLTLESTV MPYLQVLSEFREGVRKIAREKK VLEVLQLSDALR\VTSCSLSGS LKTMKPECLLF
9336	39704	A	9396	1	639	MDGDEKTSFICAVHNGIFREWK QTGTCSPIKKGQLLRVECHGK IKAQGGQMYIKAALFTRAKTW NQPKCPSMIDWIKKMVWHIY/ TCEYYTAIKKKIMSSVETWMEL EAILSKLTQEQKSKFRFTSLYSS RVFQRTQDVPYHNKLNEEADK PTTNKKGLILNRLVNTPIGRK NTGKLSAIEKLLKRPKRKHLS KIYTLKNDSDLIKDKNI
9337	39705	B	9397	1	825	
9338	39706	A	9398	2	285	HEENRPFVCEH/AGCGKT/FAN KPSLTSDAVVH/DPGKKMKL KVKSREKRSLASHLSGYIPPK RKQGQGLSLCQNGESPNCVED KMLSAVPVLTG
9339	39707	A	9399	2003	2344	PFVGVFWLFFFSVFVFTFVPP EYYVLPAPPPHRSVFLVFGKRV VFFFPLPC/CDFRSRLTPPFVCAP PAPPPLPFVSVPCVPSLSCGDVC AADKKNNKKFLNTTRWKKKT
9340	39708	B	9400	3	113	
9341	39709	C	9401	48	182	

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9342	39710	A	9402	2	752	VWWSRRRPVKRRRLASPYS ACSGRSAGFLDNCAMCAARLA AAAAAQSVYAFSARPLAGGEP VSLGSLRGKVLLIENVASL*GTT VRDYTQMNELQRRLLGPRGLVV LGFPCNQFGHQENAKNEEILNS LKYVRPGGGIEPNF\MLFHKSE VN\GAGAHPLFAFLREALPAPS DDATALMTDPKLITWSPV/CRK DPGKIKFFLGPPGNFFFEKFLGGP CTVLPLRRYSRRF\QTIDIEPDIE ALLSQGPSCA
9343	39711	A	9403	1	1128	
9344	39712	A	9404	7	378	ARCDHPTAFVVCYRFYPWPAG HVDAAVH*YVCARATDSFIAV WRTLLKGTIIILHESSIHDNFNLT SQKLWAFVPNKAPRTSGIICWP EIQSAFQGGGNLYFTIPIVDRNS TNYVLRQVRLLGN
9345	39713	A	9405	318	616	DPAGFPGCWKPLFYDLHYRSQ LHQLCLQAGRTPGQFGHQHRF WWQFCT*ELPSALQPLPEGNLV SCNEQSFGAPATGTNPGEVHP AALGTWLYLLPPC
9346	39714	A	9406	1	145	MEYYAVIKKDEFMSFAGTWM KLETHLSKLTQE\QKPTPLMFSL ISGS

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9347	39715	A	9407	1	2052	MVLVVVAVVVVVLVVAVIVV VVVVVAAVVVGAVVVVVVVV MVVVVVVVVVEEDNQHKGTGA INNNNTAKNPQQSPFHSPATST GAEATQMRRNQKTNPNNMTK QVSLTPPKITLAHQWQTKKK YLIYLKKHSGVKNIPRNPTYEG CEGPFQGELOTTAQQNKGGHK QTEDHSMMLMDRKNQYCENGH TAQAVPNPYTLLSQIPEDAWEF TVLDPKHAVFCIPVHPDSQFLF AFEDPSNPMSQLIWTVLPQGFR NSPHLFGQALAQDLSQFSYLDL LVLRYMDDLLATHSETLCHQ ATQALLNFLATCGYKVSCKPA QLCSQQVKYLGLKLSKGTRTSL EERIQLGYPHPKTLKQLTAFL GITGFCQIWIPRYSKIARPLNTRI KETQKANTHLVRWTPEAEVAF QALKKALTHAPVLSLPVGQNF LYVTEKITGIALGVLT/PGTSAQ LAELIALTRAPELGEGKRVNIY ANSIGREREFLTSKGTLVKHQE AIKRLLLAVQKPKEVAVLHCW GHQKGKEREIEENRQADIEARR AARQDPPLEMLTEGPLAFELA MATARAELSLAIHHCLPPPPQ TRCWLPRLRQGVCCIPDPAR AITLTAWPKIPFLGIRKAKNPRS EKTRLATILEAACCHFGSGPPPS WELWEQGPVTVQTHILRSHL
9348	39716	A	9408	2	350	YKVSCKPAQLCSQQVKYLWLK LSKGTRALSEERIQLAYPHPK TLKQLRGILGITGFCRIWIPR*S SPTGQE/FSLYVTEETGIALGILT QVQGTSLQPMEYLNKEIDELDQ GRTH
9349	39717	A	9409	1	749	MNQSDQEMTGAFVHMKSYSYG LISGVAVKMERHIYQDRRIAIEK EFNSCRTGCMGDWSFTITQIRL LENTGIRVFKDNLVEEAWEFTV LDLMDAFFCIPVHPDSQFLFAFE DPSNPASQLTWTVLPQRFKNP HLFGQALAQDLSQFSYLDLVL RYMDDLLAAYSETLCHQATE ALLNFLATCGYKVSCKPAQLCS QQVKYLGLKLSKGTRDLTTFLP VNEEKIE/P*LSTSNCSKLRCRSG TSRGSGLG
9350	39718	A	9410	118	174	
9351	39719	A	9411	577	3018	

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9352	39720	A	9412	310	1964	TFRLTEPTQMRRNQKTNP TKQGSSIPPQKNHTSSP QEEIPDLPEKNSGVNKIP YEGCEGPFQGELOTTAQ GHKQTEDHSMLMDRKNQ NGHTAQAVPNPYTLLSQ EWFTVLDPKHAVFCIPV FLFAFEDPSNPMSQLIW GFRNSPHLFGQALAQDL LDTLVRLYMDDLTHSET HQATQALLNFLATCGYK KAQLCSQQVKYLGLKSK TLSEERIQPILGYPHPK AFLGITGFCQIWIPSILT WLSDNHLLKYQVLLLEG LRTCATLNPATFLPDNE NCQQVIAQTYATRGLLEV DPDLNLYTDGSSFVQKGL GYAVVSDNGILESNPFT QLAELVALTWALEFGEG INTGSKYAYLVLHAHASI EFLTSEGTPIKHQEAIR QKPEEVAVLHCWGHPKG IEGNCQADIEAKRASRQD MLIERHLVWGNPLWETNP
9353	39721	A	9413	3	370	RCCPCPRVHHMHISARAE RPPPFLLLLVFLFQTGPC SPPPAHPSCSSWPQWPG/ SVLLAKPAAACIAAAVSA LFPKPCRTASNWAHRQVT WSELSSCFWPE
9354	39722	A	9414	191	1375	EWPEGGGRYSSVPSAVHH CLAAELSGTSRQEPALPP VATAEAESNQPAAISKPNG GAPLQR/RSPRLSPSPGAA LPMQDMSEGSSSPPGGHI ASLTPCSLALWNSCCQSPG RGRDEGDCLVRATEPSATG RRTRLCSISASLVVRNTPD DRRPGISDRRPGTSDRRPG RPGISDRRPGTSDRRPGTSD GTSDRRPGTSDRRPGISDR SDRRPGISDRRPGTSDRRPG RRPGTSDRRPGTSDRRPGIS RDWIPAAAASRENSNSADA RCSSPSRKQCQTPTSHRMG SVGSSAGHTAGGTGLPTPS QALQVFPAVLGKRGLSWER LKQRDIRGPDFSSTALI
9355	39723	A	9415	3	523	

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9356	39724	A	9416	1	846	MLCDFQDGSTSRHVNEPSNNPS PQPWSEDQGGASATVPCAHSV MHRLKKFTIEYLVMKFLKAVS HAIQMEMLAPKGPSPEDASV KEENICRAFSDALLYKIEDIDNK DWNNPQLCSDY/VKD NAYTSF QIQEMETVLKELKFEVGGPLPL HFLRQASKAGKADVEQHTLAK YLMELTLIDYDMMHYHPSKAA TAASCLSQKVLGQGWNLKQQ CYTGYTQNEVLEVMQHVAKN VLKVNENLTKFIAIKNKYASNK FLKISMIPQLNSKAIKDLAFLM GGS
9357	39725	A	9417	72	1340	CPPFSVRVPPWAGLALLPSPSL MALLRRPTVSSDLENIDTGVS KVKSHVTIRRTVLEEIGNRVTT RAAQVAKKAQNTKVPVQPTKT TNVKNQLKPTASVKPVQMEKL APKGPSPTPEDVSMKEENLCQA FSDALLCKIEDIDNEDWENPQL CSDYVKDIYQYLRQLEVLSIN PHFLDGRDINGRMRAILVDWL VQVHSKFRLLQETLYMCVGIM DRFLQVQPVSRKKLQLVGITAL LLAPKYEKMFSPNIEDFVYITD NAYPS\SQIREMETLILKELKFEL GRPLPLHFLRRASKAGEVDVEQ HTLAKY\LMELTLIDYDMVHY HP\SKVAAAASCLSQKVLGQGW NLKQQYYHKDTQNEVLEV MQHMAKNVVKVNENLTKFIAI KNKYASSKLLKISMIPQLNSKA VKDLASPLIGRS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9358	39726	A	9418	1	1875	EPEKQQLYDIPASPKAGLHPP DSQASGQGVPLISVTTLRRGGY STLPNPQKSEWIYDTPVSPGKA SVRNTPLTSFAEESRPHALPSSS STFYNPSPGRSRSLTPQLNNNVP MQKKLSLPEIPSYGFLVPRGTFP LDEDVSYKVPSSFLIPRVEQQN TKPNIYDIPKATSSVSQAGKELE KAKEVSENSAGQIPHGSPDGQ/ RSPSPDPRLSGSSSDSRASIVSS CSTTSTDDSSSSSSEESAKELSL DLDVAKETVMALQHKVVSVA GLMLFVSRKWRFRDYLEANID AIHRSTDHIEESVREFLDFARGV HGTACNLTDNLQNRIRDQMQ TISNSYRILLETKESLDNRNWPL EVLVTDSVQNSPDDLRFVMV ARMLPEDIKRFASIVIANGRLLF KRNCEKEETVQLTPNAEFKCEK YIQQPQRETESHQKSTPSTKQRE DEHSSELLKKNRANICGQTLPN LEEKDKPILEQRLDENKDLGTM NPGPLIPQSSQQTPERKPRLSE HCRLYFGALFKAISAFHGLSSS QPAEITQSKLVIMVGQKLVD LCMETQERDVRNEILRGSSHLC SLLKDVALATKNAVLTYPSPAA LGHLQAEAEKLEQHTRQFRGT

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9359	39727	A	9419	1	2013	MGLKSWGGMGLGTAFGKGLR GEKAWCVSGRYHWRYSQWSG TLTQGPVWVRVHSLSDRVYDV PTQHRGPVVLKEPEKQQLYDIP ASPKKAGLHPPDSQASGQGVPL ISVTTLRRGGYSTLPNPQKSEWI YDTPVSPGKASVRNTPLTSFAE ESRPHALPSSSSTFYNNPPSGRSR SLTPQLNNVPMQKKLSLPEIPS YGFLVPRGTFLDEDVSYKVPS SFLIPRVEQQNTKPNYDIPKAT SSVSQAGKELEKAKEVSENSAG QIPHGSPDGQ/RSPSPEDRLSG SSSDSRASIVSSCSTTSTDDSSSS SSEESAKELSLDLVAKETVMA LQHKVVSSVAGLMLFVSRKWR FRDYLEANIDAIHRSTDHIEESV REFLDFARGVHGTACNLTDNL QNRIRDQMOTISNSYRILLETKE SLDNRNWPLEVLVTDVSVQNSP DDLRFVMVARMPLPEDIKRFAS IVIANGRLLFKRNCEKEETVQL TPNAEFKCEKYIQPPQRETESH QKSTPSTKQREDEHSSELLKKN RANICGQNPGLIPQPSSQQTPE RKPRLSEHCRLYFGALFKAISAF HGSLSQPAEITQSKLVIMVG QKLVDTLCMETQERDVRNEILR GSSHLCSLLKDVALATKNAVLT YPSAALGHLQAEAEKLEQHTR
9360	39728	A	9420	3	645	DFHTN/K/RVCEEIPIILSKKLHN RRAGCVTHLTNQIRGPVRGISI KLQEEERDNYVPKVSALD QEIEVDPDTKEMLKLLDFGSL NLQQQKATRVYAVVQISAPMF LLWALPLSVAPLITDFKMFVTT SYLISLFLINSSANPIYFFVGSL RKKRLKESLRVILQRALADKPE VGRNKAAGIDPMEQPHSTQH VENLLPREHRVDVET
9361	39729	A	9421	312	694	LTPAPRKNVTEKYVMCLGNDF HTN/K/RVCEEIPIILSKKLHNRR AGCVTHLTNQIRGPVRGISI KLQEEERDNYVPKVSALDQEI IEVDPDTKEMLKLLDFGSLNL QVTRPTVGMNFKMPRGAV
9362	39730	A	9422	3	383	

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9363	39731	A	9423	304	1862	RMLEATSKMRKGVPSIQ/SSQ GNSYTLIPSAKSDNLSSSHSEI SSRSSIVSNCSVDSMSAALQDE RCSSQALAVPESTGALEKTEHA SGIGDHSQHGPWTLLKPSLIK CLAVSSSVSNEEISQEHIIEAAD SGSWEVGTSCSSSSHDNFQSLP NPKSWDFLNSYRHTHLDDPIAE VEPTDSEPYSCKSCSRTCQC KGSLEKSWTSSSSLSDTYEPN YGTVKRRVLESTPAESSEGLDP KDATDPVYKTVTSSTEKGLIVY CVTSPKKDDRYREPPPTPPGYL GISLADLKEGPHTHLKPPDYSV AVQRSKMMHNSLSRLPPASLSS NLVACVPSKIVTQPQRHNLQPF HPKLGDVTDADSEADATLGNK CKLLYMSDVNPVPAVKDVLV QKYTSFNFFHPQEALDRRREEL ALPEGASGEACLSTRSLKRSGV QALAQQTHSRNFLPEKQPFSAQ AAGILHGSINHNTRGPCLEGT KMMTGVLRYALLCIAYSRDLI VDEQIMNGLRKAI

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9364	39732	A	9424	1	1335	MTFKNPKYPFVSNLAKQKGMS VIKVNGLKQQSNPNRTTNGPDP SGMKVWVSPQGKNPQPTEVLA EGKGNTIEWVVEEDTRNFGFI QKHTDIGIKYDSSTGIYDLDFN VVLDRRASEEGITLTAALAADR ETPSENCLPSPVNPTAQGEEGIH PDPIIVLEQEDPTTAPHPQRLCQ QQQCQRPLCRLQPVWPHIVDLT PLTEIGSEEPVGELNFKHIRFEV SEDNMTFDASDQGPFFENYWQ LVLSATPGDVTWNGALGLHTP KSSSPDTCASQAQASQCWELSPG GRRIGTLLLPQESGASWLPPGV TSSLAAVRVIMNCGDKATPRN GGVRTLKKLSSLPLSKAGGKVL YGEINPEQEVQASLSFAALLES YGIFMETEFLVACLISQGGQLR NQDFSSSIYSLAPGLDPSSVRA GAQRTAPPWGISPRSC/PVIKVN GKLQQSNPNRTTNGPDPSGMK VWVSPQGKNPQPTEVLAEGKG NTEWVVEEDTRNFGFGIQQHT DIGIKYDSSTGIYDLDFNVVLDR RASEEGITLTAALAADRETPSE NCLPSPVNPTAQGEEGIHDPDII VLEQEDPTTAPHPQRLCQQQC QRPLCRLQPVWPHIVDLTPLTEI GSEEPVGELNFKHIRFEVSEDN MTFDASDQGPFFENYWQLVLS ATPGDVTWNGALGLHTPKSSSP DTCASQAQASQCWELSPGGRRIG
9365	39733	A	9425	56	235	
9366	39734	A	9426	1	515	
9367	39735	A	9427	138	830	AWAQLPSALGSTRVSPPPSARS QPPWRRRHK/CLLETEPLQGT EDAVASADFSSMLSEEEKEELK AELVQLEDEITTLRQVLSAKER HLVEIKQKLG MNLMNELK\QNF SKSWH\DMQTTTAYKRTHDTL SHAGQKATAAFSNVGT AISKKF GDMSYSIRHSISMPAMRNSPTF KSFEERVETT VTS LKTKVGGTN PNGGSFEEVLSSTAHASAQSLA GGSRRTK EEELQC
9368	39736	A	9428	3	381	LLETEPLQGTDEDALASADFSS MLYEEEEK EEVKAELVQLEDEIT TLRQVLSAKERHLVEIKQKLG MNLMNELK\NFSKSWHDMQT TTAYKKTHETLSHAGQKATAVA FSNVGT AISKKFGDMRRK

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9369	39737	B	9429	79	426	
9370	39738	A	9430	1	570	
9371	39739	A	9431	1	1677	MLESVNVRLLEDLITGPCWEAG WNAGYAFLVVAVEDFTIGKLF DKLEGTKLCLKNALPRVITQTE SHRQRLQEAANWHSWLKIV QKMKAVYHILNMCNIDVTQQC VIAEIWFPVADATRIKRALEQG MELSGSSMAPIMTTVQSKTAPP TFNRTNKFTAGFQNIVDAYGV GSYREINPAPYTIITFPFLFAVMF GDCGHGTVMLLAALWMILNER RLLSQKTDNEIWNTFFHGRYLI LLMGIFSIYTGLIYNDCFSKSLNI FGSSWSVQPMFRNGTWKTGTH DPHLAVLFKMGHVEGRDCVLR IVLAKIGYRNGFLRKIWNLASN KLTFLNSYKMKMSVILGIVQM VFGVILSLFNHIYFRRTLNIILQF IPEMIFILCLFGYLVFMIIFKWCC FDVHVSQHAPSILIHFINMFLFN YSDSSNAPLYKHQFNFGDVFV HQAHTIEYCLGCISNTASYLRL WALSLAHAQLSEVLWTMVMN SGLQTRGWGGIVGVFIIFAVFA VLTVAILLIMEGLSAFLHALRL HWVEFQNKFYVGDGYKFSPFS FKHILDGTAE
9372	39740	A	9432	3	933	GTWPVSSAASIYAGTGGLG\SQI SMSCSTSFWGGLGSGGLATEM AGGLAEMGGIQNEKETMQSLN DHLDYLDVRNLETENWRLES KIQEYLEKRPHVRDWGHYFKTI KELRAQIFANTVDNVHILQIDN AQSSMRQELAMRQSVESNIHG LCKVIDDTNVTLQLETEMGAL KEELLLMKKNHEEEVKGLQVQ IANSGLAVEVDAPKSQVLAKM EQLNRILLYLESKLAQNWAEG QRKVQEYKDLLNIRVKLEAIEA TYRRLLEDSEGLNLGDALDSSN SMQTIQKTTTRQIVDSKVSEIS DTKVLRH
9373	39741	A	9433	3	698	

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9374	39742	A	9434	2	479	PRVRESTTVVTTQSAEVGAAET TLTELRRRTVQSLEIDLDSMRNL KASLENSLREVEARYALQMEQ LNGILLHLESELAQTRAEGQRQ AQEYEALLNIKVKLEAEIA/TTY RRLLEDGEDFNLDALDSSNS MQTIQKTTTTRIVDGKVVSETN DTKVLRH
9375	39743	A	9435	1	618	AEHLLKPLPADKQIETGPFLEA VSHLPPFFDCLGSPVFTPIKADIS GNITKIKAGYDTNQPRFRTLKT ILEGEKEMYGAKGPKVGATLA LMWLKRGLRFIQVFLQSIDGE RDENHPNLIRVNATKAYEMAL KKYHGWIVQKIFQAALYAAPY KSDFLKALSKGQNVTEEECLEK IRLFLVNYTATIDVIYEMYTQM NAELNYKV
9376	39744	A	9436	1	1569	
9377	39745	A	9437	211	368	ERNLSLQWDNPTPPATRRPS HSSLRGEHAQ*GLLSFFERLSCT LSRFMPI
9378	39746	A	9438	1435	1703	
9379	39747	A	9439	1	913	MKNYNCWRRVFLFVVTPIPMG HIKHRQGPKNKQQRGQKRDEQR MRKENRGHRKGCTWCGGGTE GTGWGKYEKSEVERGLVRYER KRRAYSGIQYAAAAALPTVYN QNLLTQQSIGAAGSQKEACAY AVMSLASRAPVYRSFDSEKAG DREVQRTMLELLNQLDGFQPN TQVKVIAATNRVDILDPALLRS GRIDRKIEFMPNNEEARVARIMQ IHSRKMNVSTDTTLVALQMAL NVYNGKQAPYASCHIFELYQE DNGFLLHTGFVSYDNPVSAQ AAIQSMNGFQIGMKRLKVQLK RSKNDSKPY
9380	39748	A	9440	3	438	
9381	39749	A	9441	1	247	AIAAIDSDSSDGSRQSEWKFWK GFTILDAIKNIYDSWEEVKMST LTEVWKKLIPTLMDSFEDFIEE VTVDVWECTVLQTI

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9382	39750	A	9442	93	726	TSLGLSLCPRQCKRCPHLSLQQ EEDPANLEVDHDFQDKVWP HLALRVP\AFETLKVQSAWAGY \YDYNTFDQNGVVGPHPLVVN MYFATAFSGHGLQQA\GIGRA VAEMVLKGRFQTIDLSPLFTR FYLGE\EKIQ\ENNIILRHVCSGIG LPLACNPWLCLKSLVCWLPFIP KVLCPGLLSPSPVSSSSQAGHW HPIWAGQGTGSEAEQG
9383	39751	A	9443	1	849	MSGALDVLQMKEEDVLKFHA AGTHLGGTNLDFQMEQYIYKR KSDGIYIINLKRTWEKFLAAR AVVAIENPADVSVISSGNTGQR AVLKFAAATGATPIAGHFTPGT FTNQIQA\FREPRLLV\TDPRA DHQPLTESSYVNLPTIALCNTDS PLRYVD/ICNNKGAHS\DPEEIE KEEQAAAEKAVTKEEFQGEWT APAPEFTATQPEVADLSEGVQV PSVPIQQFPTDDWSTQPATENW SAAPTAQATEWKMQQSTILE AESSPHQTPNLPAPWSRTSQPPE
9384	39752	A	9444	1	1575	
9385	39753	A	9445	1	2325	
9386	39754	A	9446	1	1149	
9387	39755	A	9447	85	1041	REIVTMSGALDVLQMKEEDVL KFLAA\GTHLGGTNLDFQMEQ YIYKRKSDGIYIINLKRTWE\KL LLAA\RAIVAIENPADVSVISSQE ILGQKGCAESFAAATGATPICW ARFTPWNLSLTQIQGSPSGEPR AFLLVTDPPQLNHQPSHGGNL NV*PTLPLALVNPD/SPLRRYVD IAIPCNNQGSSLQWGLMWWW\M LASGSFCAMRGTVISREHP\WEV\ MPADLYFYRDPEEIEKEEPGCCCL RSQVTKEEFQGEWTAPAPEFT\ VTQPEVADWSEGVQ\VPS\PIQ QFP/TTEDWSAQPATDWSAAP TAQATEWVGATTDWS

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9388	39756	A	9448	1	762	MGKVKVGVNGFGCIGRLVIRT ACNSGKVDIIAINDPFIDLSYMV YMFQYDPTHGKFHGTVKAENG KLIVINGNPITIFQEPDPSKIKWG DAGTEYVMESTGIFTMENAG AHLQWGAKRPGQLQNIIPATT/ GAAKAVRKVIPELNGKLTGMA LRVPTANVSVDLTYHLEKPA KYDDIKKVVKQASEGPLKGILG YTGHQVVSSDFNSDTHSSTFNA GAGTALNDHFVKLISWYDNEF GYNNRVVDLMAHMASKE
9389	39757	A	9449	93	660	DTMGKVKVGVNGFGRIGRLVT RA\AFNSGKVDIVAINDPFIDLN YMVYMFQYDSTHGKFHGTVK AENGKLIVINGNPITIFQERDPSK IKWGDAG\AEYVVESTG\VFTT MEK/ALGAHLQGGSQKGHSSL APSCLMPPMFVMGVN\HEKDD NSLK\IISN\ASCTTNCLAPLAK\ VIHDTLVSGEGLKDHRLP
9390	39758	C	9450	554	715	
9391	39759	A	9451	193	472	RRVGVWRRPQFQQSRC SHGPN QGSAPWLNPTGAFGKETDLL\ DDSLVSIFGKRRLAKRFSMVG/D RMASKNALNAQPDGPGLTCSL APNIISQL
9392	39760	A	9452	1	864	GTRMGLAGVCALRRSAGYILV GGAG/WSVLAPRAAAARRCSE GEWASGGVRSFSRAAAAMAPI KVGDAIPAVEV\FEGEPGNKVK PGKSLFKGKGVLFVPGGPPP LGCS\KTHLAKGLWEQG*RLCK AKGKSRVVALF*VVNDALCDW AQWGQAPQGGKARFLLAESP LGPF GK\ETDLL\LDESLVSHLL GIRRLK\RFS\MVVQDGIV\KAL\ NVEPDGTGLHLAAWAPNIIFTA LEALGPDLLPLPPPYSSPCPALC LGPLQFGNVGQISAINTLWVLR PKQKKKKKS
9393	39761	A	9453	1	239	QCCSGGTHGNPAIGDR\MQKQI LPWAPAQMKIRFMAPPERKYS VWIAAPILASLSTSSRMWISKQE YDESGPSIVHRKCF

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9394	39762	A	9454	2	801	ASAPRAQSLAFADPPPVHTRRQ LTMDDDIAALVVDNGSGMCKA GFAGDDAPRAVFPISVGRPRHQ GVMVGMGQKDSYVGDEAQSK RGILTLKYPIEHGIVTNWDDME KIWHHTFYNELRVAPEEHPVLL TEAPLNPKANREKMTQIMFETF NTPAMYVAIQAVLSLYASGRTT GIVMDSGDGVTHTVPIYEGYAL PHAILRLDLAGRDLTDYLMKIL TERGYSFTTTAEREIVRDIK/EE AVLRRPGLRARDGHG\ASSSSL EKSYELPDGQVITIGNERFRCPE ALFQPSFLGMESCGIHETTFNSI MKCDVDIRKDLANTVLSGGT HQFPLPCRPGC*KKITALEP\AT MKI\RIIA\PEAQSTPLWNRGAP IL\ASLVHLPKMWQDKSREYD ESGPLPFVHRK\CFQLLPGEELR
9395	39763	A	9455	3	108	
9396	39764	A	9456	1	1430	MKFLIAFFGGVHLLSLCSGKAI CKNGISKRTFEEIKEEIASCGDV AKAIINLAVYGKAQNRSYERLA LLVDTVGPRLSGSKNLEKAIQI MYQNLQQDGLEKVHLEPVRIP HWERGEESAVMLEPRIHKIAIL GLGSSIGTPPEGITAEVLVVTSTF DELQRRASEARGKIVVYNQPYI NYSRTVQYRTQGAVEAAKVGA LASLIRSVASFISYSPHTGIQEYQ DGVPKIPTACITVEDAEMMSRM ASHGIKIVIQLKMGAKTYPDTD SFNTVAEITGSKYPEQVVLVSG HLDSDVDVGQAMDDGGGAFIS WEALSLIKDLGLRPKRTLRLVL WTAEQGGVGAFQYYQLHKV NISNYSLVMESDAGTFLPTGLQ FTGSEKARAIMEEVMSLL\QPL NITQVLSHGEGTDINFWIQAGIV PGA\SLDDLYKYFF\HHSHGD TMTVHGIQTQMECLLLFWAV VSYV\ADME\EMLPRS
9397	39765	A	9457	2	631	
9398	39766	A	9458	1	406	PTVCERELCVFAFQTLGVMNE AADEIATGAQVVDLLVSMCRS ALESPRKVVFEPYPSVVDPNDP QMLAFNPRQLKFMHTPHQFLL LSSPPAKESNFRAAKKLFGSTF AF/HLHGAMYGSGIYLSPMSSIS FGYSA
9399	39767	A	9459	7	257	

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9400	39768	A	9460	2	649	
9401	39769	B	9461	50	607	
9402	39770	A	9462	627	1665	EQAGQALSTAPVGDGHELLCE VGSSSFRDVLGTSMGLCGGY/G GAS/GMGGITAVTVNQNVLSPL NLEVDPNMQGMHTQEKEQVK TLNKSASFVDKVLFLQQNKM LETNWSLLQQQKPAQSNMDN MFESYINNLLGQLEILGQEKLK LEAELGNMQGLCMFFVKEDFK KKYEDEINKPTMENEFVLIKK DVDDAYMNKVELEFRLEGLTD EINFLRQLYEEIPELQSQILDTS VVLMDNSRSLDMDSIIAEIKY EELQTLAGKHWDRLTKTKIS EMNRNISRLQAEIEGLPQRPEQ RASLESVIADAEQRGELAIKDA KTKLSELEAAQQRAKQDMAHG
9403	39771	A	9463	2237	2656	LSCSLFSGFAGTRFFGTSILRLPL MYCPVNDSTGTAIIASSGPSATTS PP*TPAPGPMSTWSAARIASSS CSTTITVLPRSRRWISVPNRRSL SRWCRPIDGSSSTYITPTRPAPI WLARRIRCASPESVSAERESV
9404	39772	A	9464	3	2790	EFVLIKKD\VDEAYINKVELESR LEGLTDEINFLRQLYEEIRELQ SWISDTSVVLMDNSRSLDMNS VIAEVKAQYEEIANRSQAEAES MYQIKDEELQSLAGKHGDNLR CTKTKISEMNRNISRLQAENEG LKGQRAFLEAAIADAEQCGELA IKDANAKL/SELEAALQRAKQD MAWQLRLMNVRLALDIEIATY KKLLEGEESRLESGMQNMSIHT KTTSGYASGLSSACGGLTSPGL SYGLGASSFSRT

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9405	39773	A	9465	2	1516	SAIPTSTPASTMSIRVTQKSYKV STSGPRAFSSRSYTSGPSRISS SFSRVGSSNFRGGLGGGYGGAS GMGGITAVTVNQSLLSPLVLE VDPNIQAVRTQEKEQIKTLNNK FASFIDKVRFLEQONKMLET WSLLQQQKTARSNMDNMFESY INNLRQLET\LGQEKLKLET L\GNMQGLVEDFKNKYEDEINK RTMENEFVLIKKDQDVDEAY MNKVELESRLGLELTDEINFLR QLYEEEIRELQSQISDTSVVLMS DNSRSLDMDSIIAEVKAQYEDI ANRSRAEAESMYQIKYEELQSL AGKHGDDLRRTKT*DLLR*TRN ISRLQAEIEGLKGQRASL\EA ADAEQRG\ELAKDANAKL\SE LEAALQRAKQDMARHLR*VTR ELD*TFKLGPGTFE\ATYRKL EGEESRL\ES\GMQNMSIHTKTT GGYAGGLSSAYGGLTSPGLSYS LGSS\FGSGAGSSSFRTSSSRV VVKKIETRDGKLVSSESDVLPK
9406	39774	A	9466	1410	3244	PPCRRSHPRPPLRGEQKPRPSQP PFAVPAAPAPQV*PQMIDLCNV GFQFYRSLEHFGGKPVKQEPK PSAVWPQPTPTPFLTPYPYPK VHPGLMFPFFVPSSSPFPSRHT FLPKQPPEPLLPRKAEPQSEET KQKVERVDVNVQIDSYVVDV GGSQKRWQCPTCEKSYTSKYN LVTHILGHSGIKPHACTHCGKL FKQLSHLHMLTHQGTRPHK CQVCHKAFTQTSHLKRHMMQ HSEVKPHNCRVCGRGFAYPSEL KAHEAKHASGRENICVEGLDF PTLAQLKRHLTTHRGPQYNCS ECDKTFQYPSQLQNHMMKHK DIRPYICSECGMEFVQPHHLKQ HSLTHKVLRLWWGGRGLGK RSGALSRLGSRTPVPLCTLPR GGLQGEIQAQSEFSPVCNHSP GVIQAEKQGPSGVPEILPQLNS CPTKGTCRYYPEGSRLPSAGTI NKGPRLGFSRKGDSLTSGLPL YVGKESKVHFRAVEDPGVKEH KCGICGREFTLLANMKRHVLIH TNIRAYQCHLCYKSFVQKQTLK AHMIVHSDVKPFCKLCGKEF NRMHNLMGHMLA\RNKGKPLK RLYCPSKFTLKGNLTRHMKVK

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9407	39775	A	9467	1	1309	MRIQQLCGHLWQQKKISLELM SSFHKILKNKMGCQVTPDSKEL LKYLSCNSYPLTGSPQEAPVS DVPLPVSKCSHCSVQLIMCLRP EHIPNSPGIKGQGIKQHEEKHPT LLHLDASHLMTCFVVMETLYV LIAGFKSLCSIHSYPPRTLRLHC EKVWDSLLENERRHEKRGAN FLHRLPAEHQWGIVQSSNIMAG LSARLQLFLEHRPFPVFELTAN GCPTKGLQGEIQAQSEFSPVC NHSPGVIQAEKQGPSGVPEILP QLNSCPTKGTCRYYPEGSRLPS AGTINKGPRLGFSRKGDSLTS GAPLYVGKESKVHFRAYEDPG VKEHKCGICGREFTLLANMKR HVLHTNIRAYQCHLCYKSFVQ KQTLKAHMIVHSDVKPFKCKK SFTAQGNSAPQEDAGSQGE/PV CLL/CPNWGQRKGRAWRLRH
9408	39776	A	9468	3	4804	KRLNIQKTLEAVFSEAVWMQ PSVLLDDLDLIAGLPAVPEHE HSPDAVQSQRLAHLNDMIKE FISMGSVALIATSQSQSLHPL LVSAQGVHIFQCVQHIQPPNQE QRCEILCNVIKNKLDKDKFT DLDLQHVAKETGGFVARDFTV LVDRAIHSRLSRQSISTREKLVL TTLDFQKALRGFLPASLRSVNL HKPRDLGWDKIGGLHEVRQIL MDTIQLPAKYPELFANLPIRQRT GILLYGPPGTGKTL
9409	39777	A	9469	2	1844	
9410	39778	A	9470	3	772	VPNPYTLLSQIPEEAFTVLD LKDVFFCIPVHPDSQFLFEDP LNPMSQLTCTVLPQGFRDSPHL FGQALAQDLSQSYLDLTVLQ YVDDLLAACSETLCHQATQA LLNFLATCGYKVSKEAQLCS QQVKYLGLKLSKGTALSEECI QPILAYPHLKLTKQLREFLGITG FCRIW/NFQALLERPVLQLCTC ATLNPVTFLPDNEEYNCQQII SQTYATRGLLEVPLTDPDLNL YTDGSSFVEKGPQKA

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9411	39779	A	9471	1	6504	MWGSURLAGAGGGGA AVTVAF FTNARD CFLHLPRRLVAQLHLL QNQAIEVVWSHQPAFLSWVEG RHFSDQGENVAEINRQVGQKL GLSNGGQELHAVSLEQHLLDQI RIVFPKAI FVPVWVDQQT YIFIQI VALIPAASYGRLETDTKLLIQPK TRRAKENTFSKADA EYKKLHS YGRDQKGMMKELQTKQLQSN TVGITESNENESEIPVDSSSVAS LWTMIGSIFSFQSEKKQETSWG LTEINAFKNMQSKV VPL
9412	39780	A	9472	2	1658	
9413	39781	A	9473	1	617	MCSWTAPVSSILTHPNWPVLR MAGLTGCASVAMKKKIEHNCQ QVIAQTFTTRGDLLEIPLTDPGL NLYTDGSSFVEKGLRKAGYAV VSDNGILESNPLTPGTSAQLAEL IALTWAPELEEGKRVKRKKA I WREREFLTSEGTPIKHQEAIRRL LLAVQKPKEVA VLHCRGH/QE GNCQVDIEAKRATRSQVARGH KICDFPSCSYR
9414	39782	C	9474	587	715	
9415	39783	A	9475	96	269	
9416	39784	A	9476	1	1398	
9417	39785	B	9477	1	1152	
9418	39786	A	9478	3	241	
9419	39787	C	9479	202	534	
9420	39788	A	9480	108	199	
9421	39789	A	9481	125	352	
9422	39790	A	9482	2	325	RRSLALSPRPDCGLQWHNLGSL QAPLPGFTPFSCSLPSSWDYRR PPRPANFLYFLVETGFHLVSQ/ SGLDLLTS\DPASASQSAGITG VSHRARPQNLFFKVRCP E
9423	39791	A	9483	184	383	LGLQ\WRNLGSLQAPLPGFTPFS \CLSLPSSWDYRRPQRPANFFF FVFFLVKTGFHLVSQG\GLDLL TS*SHPASAFQSAG\IGVSHRRP AITLQF
9424	39792	A	9484	1	416	MGRSFLGGGSTLMLLGGGQLH ILTPSFPSWTETGNYTCEFCGKQ YKYYTPYQEHVALHAPIRNSA KDDHRSASILSEN RGS HQ/SHAS CHHHYHCHYYHQH HHHCLHHH SYHHHHCHHHRGMWRNWDTV LWIHQTPVQD

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9425	39793	A	9485	3	534	GRRQRRSRHLLHRRQDRQSAP GSGSKIPQK\KVKLAADED DDEEDDFDDEETEEAPVKKSIQ DTPARNAQKSDQNGKVS TPRSKGQESFKKQEKTPKTPKG PRSVEDIKTKMQASIEKAHGT LGTTVGNIPLRGGNQEKFHGA GVWFGKFGVQRKIQKQLQKD VTSGS
9426	39794	B	9486	44	924	
9427	39795	B	9487	41	2197	
9428	39796	B	9488	67	1507	
9429	39797	A	9489	134	311	
9430	39798	A	9490	5	1545	EKIQINTI/KNDKGILPLDPTEIQI TIREYYEHLIAHKLENLEEIDK FLDIYTLPRLNQEELESLNRKPN TACSNLRDGSLLLGDGHGSSIQ AAIEVVGAGSVATKGRGRQDD TDPSNRYHRPPYSQEEKEQCITL LLSWCLGDSQGPQCRPQLSLQE LRREFTVSLHLARKLLSEVRGQ AHRFVSPNAAGAGDGQTPNPF WPPLTDLAPQAESHLPGVNL LPLGEQLPDVSLTFQAWRRLSV KCTAVRAYQTTRVVETSSCRL HVKGASNASTHRSPKEVTQGT NKSERRTRETQRAIRERNMAGC CTCATDVLVTLQSLMEGLALQ PQTRALLGSASIKASCAVTII LMSENLGKGCSSKSEGMVRRY AKHKKQEIKPYYQRKSPSLERG QEEKKVGREDREGSENQYLYG PSNISEARNRLPECGRMGLGYV ARLFLGDRRSSTPSFASYDPSSL VTYGHRRSCRVS DIRVPRLGP VGGPCKGTGIDLQCEREKKNEE
9431	39799	A	9491	32	2123	
9432	39800	A	9492	1	911	MSTLKGLIIKIIISVMIASEFILEE RIKTGLNAAKHCFAPSQAASH TISRPIPIRSASACSTPTHTPQ DSLTVGGDVQEAFAQSSRRN LRNDLLVAADSITNTMSSLVKE LNSEVGSETESNVDFARTQF EDLVPSPTSEKAFLAQIHARKP GYIHSGATTSTMRGDMVTGDA NPYVQPEDENYENDSVRQLEN ELQMEEYLKQKLQDEAYQMPL VPTKKEIHMEDFLSSLPEGAIAQ CPRTFIPDCRRKGASYSQTDD NMKTGDDGEPGHTTEEDSSL AAASPKRGTTTPSSS

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9433	39801	A	9493	2	2233	
9434	39802	C	9494	477	737	
9435	39803	A	9495	2	746	GQATHFMAKEV*QWAHAHGIH WSYRVPHHPEAAGLIEWWDCL LKSRLQCQLGDNTLQAWGKVL QKAVYALNQCPITYGTVPIDRI HGSRNQRVEVEVEVAPLTITPS DPLAKFLLPGLTTLCSAGLQVL VPEGMLPPGDTTTIPLNRKLR LPPGHFGLFLPLSKQAKMRVTA LAVVIDLDYQDEISLPLHNGDK EEYARSTGDPLERLLVLPSPVIE VNGKLQQHNLGRTTNGPDPLG MKVWVSPPG
9436	39804	A	9496	70	532	HVALLMPLQNSRSFSGYGFAYP ARNTFSKTTIHGLKECLIHGHI PSSIASDQGTFLPKFV/RKWAH AHGIHWSYHVPHYPEAASP/HS DPLAKFLLPVPTTLCSAGLAVL VPEGMLPPGDATMIPLNLSSR SHLGMPTTSLKVVRMCSKDKY
9437	39805	A	9497	51	408	CVPEPRTPSLGFQT/HPAAHAPG AQAPGSAH/DRLSSAGPGSRAA PRAPWRPWTIGYSESQPTVL/RP GQPWPGRGVSGSSAPSVPSALR GPPRSSRPSCCTWWCLWRCRH RDLGRDINFTL
9438	39806	A	9498	3	618	SSCAFSHRSSRPSRCHTVRRSTA PCAAS*HSSRAPKRHWALPGSS G*S/WRETPSTHW*P*TLPRWRT ALRPSQ*PRPRVFRVRKPCSSRP PTITRCALASAQ*SCAAIPTSSLA QRKSSRSPRRTATTWGTARRSR AHAVPAGRSPAPSAPPQAP RAWSAAAPASPSRLSSAGRGRQ AAPRAPWRLRGPPRSCRPTCCT WWCP
9439	39807	B	9499	215	293	
9440	39808	C	9500	1	1170	
9441	39809	C	9501	25	481	
9442	39810	A	9502	27	265	
9443	39811	A	9503	2	326	GRVGGRVGSDDLGRGDMARKT KKVGIVGKYGTRYGA/SRVRK MVKKIEISQHAKEYTCSFCGKT KMKRRAVGIWCCGSCMKTVA GGAWTYNTTSAVTVKSAIRRL KELKDQ

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9444	39812	A	9504	2	1125	RVGRPPLPPRPTHPRRKPLPPNN VTGKPGSAGIISGPITTPPLRST PRPTGTPLERIETDIKQPTVPAS GELENITDFSSSPRETDP LGK PRFKGPHVRYIQPDNSPCSITD SVKRFPKEEATEGNATSPQNP PTNLTVVTVEGCPSFVILDWEK PLNDTVTEYEVISRENGSFSGK NKSQMNTNQTFSTVENLKPNTS YEFQVKPNPLGEGPVSNTVAF STESADPRVSEPVSAGRDAIWT ERPFNSDSYSECKGKQYVKRT WYKKFVGVLCSNLSRYKIYLS DFLTGKFYNIGDQRG\HGEDHC QFVDSFLDGRGTGQQLTSDQLPI KEGYFRAVRQEPVQFGEIGGHT QINYVQWYECGTTIPGKW
9445	39813	A	9505	2	385	REAGSGGNDNFARRRNFSG\RG G\FGG\SRGGVW\WVAVGDGY NGFG\NDGSNFG\GGGSY\NDF WENTNKSLQNFPGHEGGEIFG GQKLLAPYGGWRPNTFAKPTK PQGG\YGG\SSSS\SSYGKWPEDF
9446	39814	A	9506	945	2313	TRVLLESRAGSQQSEGEASWQ RGYARPSCQAAISFPEHRRALR ALWAGDCRVADAGPGSSSSTPP SPPSLPKTSVSLGFLCFKKS LAA SCASGRERQLEA*VWASQPLSP TQWSEQLGVRVWASQPLSPT QWSEGG/PGGPSVGISTSLTYPV EGRT/GWGPECYVFCMLHRLPE QHDCTFDHMGRGREEAIMKM VKLDRKVGRSCQRIGEGGQED DVVASILVSMQPHSPRTSPHLP YSKFKDFSSCNCARQGWKEMG ACVQRPSAVLGGTRPVSVQAK QPLPCFLLGASALGSCGTGLGV KDRDIDRIVVMSVMKILRGNQR PSGDEQARGQRAREGLGGLGV RRACREQWAVLCPLVHRNWV CVSSFLIASQSNSPQQQHNCY ANNSPQQEEMVGRQAETFL GGVRNRKPWVGVRGLQGSH QQHIQGA VSSPSPKKGVS KRE
9447	39815	A	9507	3	684	

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9448	39816	A	9508	15	513	RIRLEGLWGSSKTMNLCSCFA DFQKKQPDDDSAPSTSNSQSDL FSEETSDNNNTSITPTLSPSQ QPLPTELNVTSPSKEEYSQSENE ASPVKRPRLLENTERSEETSRSK QKSRRRCFQCQTKLELVQQEL GMCRCGYVFCMLHRLPEQHD CTFDPHGAVAGR
9449	39817	A	9509	818	1455	SDYITRDGASFTKALLTWKNPV PNFFWKKDTFKLWGEVIRSTM WKT/DQSPSAAWMGGFGAQQP QQQAPPPVIPPNNQAGYGMASY QTQILPSPHILAVFMLPERGPNP DPKRGFLDLARKNLGNWVSTIT FLSRFPGVQVLQEFVVPGTMLP LRPLELPMHFNPHFSTALASLIA DELYLLPQLSVSQMGESFPSFD MMAICAQASTNRLWMP
9450	39818	A	9510	1	1132	MMEDDGQPRTLYVGNLSRDVT EVLILQLFSQIGPCKSCKMITEH TSNDPYCFVEFYEHRAAAAL AAMNGRKILGKEVKVNWATTP SSQKKDTSNHFHVFGDLSPEI TTEDIKSAFAPFGKISDARVVK DMATGKSKGYGFVSFYNKLDA ENAIVHMGGQWLGRQIRTNW ATRKPPAPKSTQENNTKQLRFE DVVNQSSPKNCTVYCGGIASGL TDQLMRQTFSPFGQIMEIRVFPE KGYSFVRFSTHESAAHAIVSVN GTTIEGHVVKCYWGKESPDMT KNFQQVDYSQWGQWSQVLGN PKPSD\RYMANGWQVPPYELY GQPWNQQAQFV\DQSPSAAWM SGFGA\QPP\QGGQAPPPVIPPNN QAGYGMASYQTQ
9451	39819	B	9511	1	1212	
9452	39820	A	9512	1	1032	

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9453	39821	A	9513	17	976	SGRP/GGPGGGPGMGKPRCF/RGE VFGIVIRGPGFPPGGRGRGR\GR GARGGKGPRIKGLGCPSTKLG\ RLVKDH*RSKFPWRRSIYSYSG PLKESEIIDFFLGGLLSKDEVFE RLCQVQEPEPVPQGQRHQGSRHF VA\NGNYQWPTVGSGLKCSQE /VWPTAHPVGPIILAKLLHSSPC AEGYWGEQSIGKAP/HTVPCQ/ VWTGRCGSVLVRPHWHPRGSG GIVSAPVA\KLLMMAGIDDCY T\SARGCTATLG\NFAKAT\FDAI SKTYSYLTPLDWKETVFTKSPY QEFTDHLVKTHTRVSVQQTQA PAVAYNIGFLYKKNKVN
9454	39822	A	9514	1	866	
9455	39823	A	9515	1	1793	MAAAAVSGALGRAGWRLQL RCLPVARCRQALVPRAFHASA VGLRSSDEKQKQPPNSFSQQHS ETQGAEKDPPESSHSPRYTDQ GGEEEDYESEEQLQHRILTAA LEFVPAHGWTAEAIAEGAQSLG LSSAAASMF GKDGSELILHFVT QCNTLRTRVLEEEQKLVLQLGQ AEKRKTDQFLRDAVETRLRLMI PYIEHWPRALSILMLPHNIPSSL SLLTSMVDDMWHYAGDQSTD FNWYTRRAMLAAYNTTELVM MQDSSPDFEDTWRFLNRVND AMNMGHTAKQVKSTGEALVQ GLMGAAVTSPRSRRGGWWPLG EMPYANQPTVRITELTDENVKF IIENTDLAVANSIRRVFIAEVP AIDWVQIDANSSVLHDEFIAHR LGLIPLISDDIVDKLQYSRDCTC EEFCPECSVEFTLDVRCNEDQT RHVTSRDLISNSPRVIPVTSRNR DNDPNDYVEQDDILIVKLKRGQ ELRLRAYAKKGFGEHAKWNP TAGVAFEYDPDNALRHTVYP KPEE\WPKSEYSELDEDESQAP YDPNGKPERFYYNVESCGLRP ETIVLSALSGLKKKLSDLQTQLS HEIQSDVLTIN
9456	39824	A	9516	3	176	FFFFFAETNSK*ITYQNIHIMVEI FQNSIFWDLYTKDKQIRGQEA RREKRGLGRPL
9457	39825	A	9517	1485	1679	RVGDAGHDDPGKPGPPGAGHR PEG*TGAHSLRAGLPACRAEPA GPGRAREGSKAPGHCAEELLQ

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9458	39826	A	9518	1	232	FFFETESCSVAQAGVQWCDLG SLQTLPTG/SSRHSPASAFRVARI TGARYHVRILFVFLVQTGLHHL GQADFDLLTS
9459	39827	A	9519	1	2408	GTLVTKVAPVSAPPKVSSGPRRL PAPQIVAVKAPNTTTTIQFPANLQ LPPGTVLIKSNSGPLMLVSPQQT VTRAETTSNITSRPAVPANPQT VKICTVPNSSSLIKKVAVTPV KKLAQIGTTVVTTVPKPSSVQS VAVPTSVVTVTPGKPLNTVTTL KPSSLGASSTPSNEPNLKAENSA AVQINLSPTMLENVKKCKNFLA MLIKLACSGSQSPMGQNVKK LVEQLLDAKIEAEEFTRKLYVE LKSSPQPHLVFLKKSVALRQ LLPNSQSFQQCVQQTSSDMVI ATCTTTVTTSPVTTTVSSSQSE KSIIVSGATAPRTVSVQTLNPLA GPVGAKAGVVTLHSVGPATAAT GGTTAGTGLLQTSKPLVTSVAN TVTTVSLQPEKPVVSGTAVTSL LPAVTFGETSGAAICLPSVKPV VSFCWDH\CKPVIGTPVQIKLA QPGPVLSQPAGIPTGSSSKQLFS LFHVQQPSGGNEKQVTTISHS STLTIQKCGQKTMVNTIPTSQ FPPASILKQITLPGNKILSLQASP TQKNRIKENVTSCFRDEDDIND VTSMAGVNLNEENACILATNSE LVGTLIQSKDEPFLFIGALQKR ILDIGKKHDITELNSDAVNLISQ ATQERLRGLLEKLTAIAQHRMT TYKASENYILCSDTRSQKLFLE KLDQLEKQRKDLEEREMLLKA AKSRSNKEDPEQLRLKQKAKE
9460	39828	A	9520	1	637	MLSNVKGGRKLPNGTWAHDL VTPPTASLLLLLTPAMPSVAF HSILIVTKGGVKRTRVPPPNSS GARTGNPLKVKHISFKTGDELIF LDPHTTQTFVDTEENGTDNDQT FHCLQSPQRMNINLDPSVALG FFCKEEKDFDNWCSLVQKEILK ENLRMFELVQKHPSHWPPFVPP AKP\EVTTTGAEFI\NSTEQL\EEF DL\EEDFEILSV
9461	39829	A	9521	3	176	
9462	39830	B	9522	1	792	

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9463	39831	A	9523	2	486	NGHVGLGVKCSKEVATAIRGAI ILAKLSIVPVRRGYWGNKIGKP HTVPCKVTGRCSVLVRLIPAP RGTGIVSAPVPKLLMMAGIDD CYTSARGCTATLGNFAKATFD AISKTYSY\LTPLDLKE\TVFTKS P*QELTDHLVKTHTRVSVQRT QAPAVATT
9464	39832	B	9524	1	2991	
9465	39833	A	9525	3	263	KHENWSTARQSLHACSRVTWQ NRLRLSNKWMPSHVLCLLP/S MTLQPANLSSLLITPPEFGPKIA SPICTSCSVNFPRTLISPFSHC
9466	39834	A	9526	1022	1201	
9467	39835	C	9527	1	924	
9468	39836	A	9528	2	837	WKNCLEKRSMILTMHRILES*D* RQE/ILERHDAKYHSPKAEKQ MKHKAGSQIVKKEEAKLALAL EGFCRFRNHHQTGFSPAGATQR GPLVAILSGPGGEGQSAVARLT GEKKNHPGAQYANRLSPRVGR FINAAGTTGFPTGKRAWPPFRL FLPHKGFADWGPTINQDFRLLG QPSVARFLNFSQGPAGEGQSAV ARLPGHFPITQPPILPGYAAAG MQALARRRPILMFDSLSSNFCH SSAYYHLFRRSNQAFKGTNNCL KKITPRPATHRSTVVIH
9469	39837	A	9529	3	1137	APAPSPVSGSGCCLSHMFFHPPS RANRAFVD\YAPMDEIQNAEIN SQVRRYLEGTLDEIDVRNPSVT TMLSQPGPPSPGHTPTHALLAS EPHVNGCKTVSTVHEDYSGSSE SSNDESSEDTSDDSSIPRNL QSVVAVPKNSTLPMEETSPCSS RSSQSYRHYS DHWEDERLESRR HLYEEKFESIASKACPQTDKFFL HKGTEKNPEISFTQSSRKQIDNR LPELSHPQSDGVDSTSHTDVKS DPLGHPNSEETVKAKIPSRQQE ELPIYSSDFEDVPNKSWQQTTF QNRPD SRLGKTELSFSSSCEIPH VDGLHSSEELRNLGWDFSQEKP STTYQQPDSSYGACGGHKYQQ NAEQYGGTRDYWQANGLLS
9470	39838	A	9530	1	1857	

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9471	39839	A	9531	1	989	MEDWKVRGHQEKTAFEVQSF SCSERETTLVLLLRSPAVPQLLL HGLCGPDLSTKAAQCHFKAIW QSLGNTLGAVSDQATPGHVKS LPPGALISRQGRGQFCSVDAVF LLHDSPELPSSLPHGASLPLASS DKQAEQTWLGAVGSVQCTSIT ACPRDLEDRPHLTEHPPAGVHC GQNPCPCHLIFTLYSKSLPLDLA CRIWDVFCRDGEEFLFRTALGI LKLFEILTKMDFIHMAQFLTR LPEDLPAEELFGPSIATIQMQSR NKKWAQEPGHELEWPDRSFRP RVLACPMGSREHRLQPACSGST GQGHTKALFPETCCQSPIFQDA
9472	39840	A	9532	2013	2270	
9473	39841	A	9533	3	744	
9474	39842	A	9534	190	991	SVLSNKQNHCSQTAPPPPPAA SGSRGWVWGLFWGLAAILEGS TGADWSQLPHSCCPSLLVPHVL SVVPLRPPHRDFPVEDVFTLPV YFSSDWLNEFWDALDVEDDYRF VYAGPAGSWSPFHADIFRSFSW SVNVCGRKKWLLFPPGQEEAL RDRHGNLPYDVTSPALCDTHL HPRNQLAGPPLEITQEAGEMVF VPSGWHHQVHNLDITISINHN WVNGFNLANMWRFLQQELCA VQEEVSEWRDSMPDWHHCQ VIMRSCSGIKL
9475	39843	A	9535	1	885	MKRRAVMGPPQVQAWKALDL WESSQVMEGKAVVPMGRNPM MRKATQGQLENSPALEKLLPPL QGNVGFAFTKEDLTEVRDLLL ANKVPAATRAGAIGPCEVTVPA QNTGLGPEKISFFQALGITTIS RGTTIELSDVQLIKTGDRVGAS EATLLNTPNISPFSGFLVIQQVF NNGSIYNPEVLDITEETLYSGFL EGVRNVAS\CLQTGYPPVASVP PSII\NGYKGCLALSVDYTFPP AEKIKTFLADPSAFVAAAPVAT TATAAPAAAAAPTKFENESEEE LDEDMGFGLFD

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9476	39844	A	9536	65	988	RTAVMPREDRATWKSNYFLKII QLDDYPKCFIVGADNVGSKQ MQQIRMSLRGKAVVLMGKNT MMRKAIRGHLENNPALEKLLP HIRGNVGFVFTKEDLTEIRDML LANKVPAAARAGAIAPCEVTVP AQNTGLGPEKTSFFQALGITTKI SRGTIEILSDVQLIKTGDKVGAS EATLLNMLNISPFSFGLVIQQVF DNGSIYNPEVLD\ITEETLHSRF LEGVRNVASVCLQIGYPITVAS VPHSIINGYKRVLALSVETDYTF PLAEKVKAFLADPSAFVAAAPV AAATTAAPAAAAAPAKVEAKE
9477	39845	A	9537	1	993	MREIALTQTRQCGKKIGAKVGI RGSEVPAPAYWVAREDVSGSG GLGGGWYVPCAVLVDLEPVT MDSLRSRGPFGILFRPTTSSLKLE NADKTFCIDNEALYDIYSRTLK LPTPTYGDMNHLLSATMSGVT MCLGFPQNLADLQKLSVNMV PFPRLLHFFMPGFAPLTSRGSQH YQALTVAEALTQQMFYAKNMM AARDPRHGRYLTA A AIFQGRM PMREVDEQMFNIQDKNSSYFA DWFPDNVKTAVCDIPPRGLKM SGSFIGNNAAIQELF\QCVSEQF TAMFRRKA\FLHWYTGE\MD MEFTAEASNMDLVSEYQQY QDATAQGGGG
9478	39846	A	9538	231	881	SSLSGTVGSLPFRLLHWMPVS YSSVTTRYYYHRAGAEKGDRII FVTKKDHETPSSAELVADDPND PYEEHGLILPNGNINWNCPLG GMASGPCGEQFKSAFSCFHYST EEIKGSDCVDQFRAMQECMHK YPDLYPQEDEDEEEEREKKPAQ QAEETAPIEATATKEEEDQVNE GHKALSTSPFGVDLLQKALSSP SKKVSFCCPVHYNINLNF
9479	39847	A	9539	1	804	

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9480	39848	A	9540	2	3337	SSLLEKMTSSDKDFRFRMATSDL MSELQKDSIQLDEDSERKVVK MLLRLLLEDKNGEVQNLAVKW LGVPLGAFHASLLHCLLPQLSS PRLAVRKRAVGALGHLATACS TDLFVELADHLLDRLPGPRVPT SPTAIRTLIQCLGSVGRQAGHRL GAHLDRLVPLVEDFCNLDDDE LRESCLQAFEAFLRKCPKEMGP HVPNVTSCLCLQYIKHDPNyny DSEDEEQMETEDSEFSEQESE DEYSDDDDMSWKVRRAAA
9481	39849	B	9541	1	3178	
9482	39850	A	9542	190	284	LNAQPGTRRLWPAEIRPPPRRL GKGGQQVSHHPPISCFYCECEE KRLCVNTHVWTK*T
9483	39851	A	9543	62	280	
9484	39852	A	9544	1	1452	
9485	39853	A	9545	2	998	ITAGATPEERVICFVEYYLTAFH EGRKGALAKKPYNPIGETFHC SWEVPKDRVKPKRTASR/PLLP AVMNTQWPMTLPKSYKLRFVA EQVSHHPPISCFYCECEEKRLCV NTHVWTKSKFMGMSVGVSMI GEGVLRLLLEHGEEYVFTLPSAY ARSILTIPWVELGGKVSINCAKT GYSATVIFHTKPFYGGKVHRVT AEVKHNPTNTIVCKAHGEWNG TLEFTYNNGETKVIDTTTLPVY PKKIRPLEKQGPMEsrNLWREV TRYMRLGDIDAATEQKRHLEE KQRVEERKRENLRTPWPKPYFI QEGDGWGLQSPLESTLMGLEV
9486	39854	A	9546	12	740	HFFLYKKLIPFVLKNCMFHFSP VRGTVVTNDRWGAGSICKHGG FYTCSDRYNPGHLLPHKWENC MTIDKLSWGYRREAGISDYLT EELVQPLVETVFSAGNPLMD\IG PHLDGTISVVFEERLRQMGSW LKVNGEAIYETYTWRSQNDT VTPDVWYTSKPKEKLVAIFLK WPTSGQLFLGHP\KAILGAT\EV K\LLGHGQPLNWIFFGDKMGIM \VELP\QLTIHQMPCKWG\WAL A\LTNVI
9487	39855	B	9547	1	627	
9488	39856	B	9548	47	504	

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9489	39857	A	9549	2	379	VDLVREFIERQ/HAKNRYYYYH RQYRRVPDITECKEEDIMCMYE AEMQWKRDKVDQEIINIMQD RLKAFQQQSYRATQQGHPQAA SGGGSWRPLLQIFSLAASSASV RPGTSWQNCRPPGPD LGKQ
9490	39858	B	9550	49	707	
9491	39859	A	9551	3	1162	
9492	39860	C	9552	342	581	
9493	39861	A	9553	3	513	LLPHKPLAGFFKAYLPSEPRV YVSSFWPQ/EYKPDTHQELFLQ EEIS/LLEDLNQVIENRLENKI/A FIRQHAIRVRIHALLLARGLDPF IGPRRDWLVPYAVTGAVAFGF VEGLDPSQEHPRFQGTQDNVSK DESTRKEQSVRLVCGGADDRK PRDLQILDRDRKGPELVQ
9494	39862	A	9554	1	1365	
9495	39863	A	9555	771	1536	PRPLSLWSREAGKGVQDCYIDN SQLCRKCDLCPTGSPQSLPPYAS IPPTSPSTIK/DPPSTQMV/QKET DKGVNNEPKSGNIPQLCRLQAV GGGEFGPARVRVPFSLSDLKQI KIDLGKFSDNPDGYIDVLQGLG QCFDLTWRDIMLLLNQTLTPNE KSAVITAAREFGNLLYLSQLRH WPVTLQPSAVPTPDSGTYDTKE CKIVQSVEMSMEVMIAVMSVQ RQQGKQTQQQPLLVVVRSAP AEESVPHKSSTRGAS
9496	39864	A	9556	220	249	P*N**PSTLTGTGSTTT*QIRM KVN*MGN/DSPQ GKNTPKMYS GEFSPVRVHVPFSLSDLKQIKID LGKFSDDPDGYIDVLQ
9497	39865	A	9557	2	385	
9498	39866	A	9558	84	849	PRPLSLWSREAGKGVQDCYIDN SQLCRKCDLCPTGSPQSLPPYAS IPPTSPSTIK/DPPSTQMV/QKET DKGVNNEPKSGNIPQLCRLQAV GGGEFGPARVRVPFSLSDLKQI KIDLGKFSDNPDGYIDVLQGLG QCFDLTWRDIMLLLNQTLTPNE KSAVITAAREFGNLLYLSQLRH WPVTLQPSAVPTPDSGTYDTKE CKIVQSVEMSMEVMIAVMSVQ RQQGKQTQQQPLLVVVRSAP AEESVPHKSSTRGAS
9499	39867	A	9559	66	197	RQWKG*KFVFQKM*DLGKYLQ RQLFCLSSLVQPPWPVPTIYP
9500	39868	A	9560	1	2340	
9501	39869	B	9561	1	1776	

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9502	39870	A	9562	1	1349	
9503	39871	B	9563	107	769	
9504	39872	A	9564	329	2042	
9505	39873	A	9565	511	1631	HFGNHERTSKVMGNVPRKTKT PLRRILENWEQFDPQTLRKKRLI FFCSAAWAPPEGSINYNTILQLD LFCRKKGK WSEVP*VQTFSLRD NSQLCKKCDLCPTGSLQSLPPY PSIP\TPSPLNKDPPSTQMVQKEI DKRVNSEPKSANIPQL*PLQAV GGREFGPARVHVPPSLPDLKQI KTDLGKFSDNPDGYIGVLQGLG QFFDLTWRDIMSLNQTLPNE RSATITAARELGDLWYLSQVN DRMTTEERERFPTGQQA VPSAD PH*DTESEHGDWCCRHL LTCVL EGLRKTRKKAVNFSVMSTVTQ GKEENPTAFLERLREALRKHTS LSPDSIEGQLILKIKFITRSAADI RKQTSKVHLRPGAKLKTPY
9506	39874	A	9566	15	178	
9507	39875	A	9567	3	826	RQLGTRNFLNGTKAKAFELSYL EKVPEGKDTVHKQSLHHVGT MGGENFPDSSDLYSEIGAITRSA KDDFDQLQDNLCQMERRCIAS WDHLKAIKHEMKPLLKQ RMS ELLDCAERIIILKIVHTRIINRF HSFLLFMGHPPYAIREV NINKFC RIISEFALEYRTTRERVLQQKQK RANHRERNKTRGKMITDSGKF SGSSPAPPSQPQGLSYAEDAAE HGEHEGCAENLVPLQESPAHTF SIVSAVFLIP*HPVY*FKSVTPF LGKEQPL
9508	39876	A	9568	1	670	

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9509	39877	A	9569	1	2426	MPKPSLEAGSCPRLEFPVEDAQ PVIKGEEFTPPPPNSYLALGDIST EEWDLEVAQEYQERMPPQRAA LICVFSWNLGRSLPAPAMRRPC QNFCVALSTFAGDPEPESEAEP EAEAGAGQVADEAGQDIASAH EGAETEVEQALEQEPEERASLS EKERQNEGVNERDNCSASSVSS SSSTLEREEKEDKLSRDRTTGL WPAGVQDAGVNGQCGDILTNNK RFMLDMLYAHNRKSPDDEEKG DGEAGRTQQEAEAVASLATRIS TLQANSQTQDESVRVDVGCL DNRGSVKAFAEKFNSGDLGRV FNAPQGLGWSQVPRGQPTFTK KKKTIRLFWNRN/VGLLTGH/G KNNRRCREFLWSKLEPIKVDTS RLEHLFESKSKELSVSKASKLV RPLFILTSACPFLSFPWKAPLHS STRQLHRGLSAQERWRCSGIRG MECLNGKGPLESRNPAYRKSE GTRQTGAGDMKDG VWQGVPA TPDTPQGMCTVCTVSFAIMDGL NVNSVGPLPFHEVAEPLLDLKE GIDQLDYTLGFFFLVSMLSGGG LLGGSASAKAFELSYLEKVPEV KDTVHKQSLHHVCTMVVENF PDSSDLYSEIGAITRFHSFLLFM GHPPYAIREVNINKFCRISEFAL EYRTTRERVLQQKQKRANHRE RNKTRGKMITNCVRHCVRMFS GSSPAPSPQPGLSYAEDAAEH
9510	39878	B	9570	164	346	
9511	39879	C	9571	160	339	
9512	39880	A	9572	54	212	SFPSVVLWKDLQNLKIQVPGLI LLGVGLISVPGGRI*LLRTGSRK PISQVCP
9513	39881	C	9573	48	185	
9514	39882	A	9574	2	551	ADRRGAVYPRSRDGGGVRGPC AMATSVLCCLRCKDRGTGHIP LKDMLSVHMDTQHMGTDVVI VKNGRKIFGTGGCLASAPLHQN KSYFEFKIQSTGIWGIGVATQK VNLNQIPLGRDMHSLVMKNDG ALYHNNEEKNRLPANSLPQEG D/VVDDSAILDCQFSEFYHTPPP GFEEKILFEQQIF
9515	39883	A	9575	3	655	

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9516	39884	A	9576	131	1066	SHSSSAAAHPLGLLPAAQSLA VFIEPWSQASSRGQLQ/V SAPGI WGIGVATQKVNLNQIPLGRDM HSLVMRNDGALYHNNEEK NRL PANSLPQEGDVVLCWSNNGHS LCKEESLSPILPTSDGEERRRKR KKRKRKKRKQKQQQQQEEAAA PAEADAEATAAEAAVEEAAAR KEEEEEEGEEGEGNGEEEEKAA AAARGDWSQQEKACKSSLQAI LFGHAKLEPGRLPRPTQCRVEA TVLVGTNSPLDNPLWSISWSLW QKPVGTSQQQPLGLWTREFFLE GHLLTRNETFTEATPLIPEIGML SQMMSEEH
9517	39885	A	9577	1	2363	ELQRDIEKHSTGVASVLNLCEV LLHDCDACATDAECD SIQQATR NLDRWRNICAMSMERRLKIE ETWRLWQKFLDDYSRFEDWLK SSERTA AFPSSSGVIYTVAKEEL KKFEAFQRQVHECLTQLELINK QYRRLARENRTDSACSLKQMV HEGNQRWDNLQKRVT SILRRL KHFIGQREEFETARDSILVWLTE MDLQLTNIEHFSECDVQAKIKQ LKAFQQEISLNHNKIEQIIAQGE QLIEKSEPLDAAIIEEELDELRR YCQEVFGRVERYHKKLIRLPLP DDEHDLSDRELELEDSAA LSDL HWHDRSADSLSPQPSSNLSLF ASLQPLRSERISGRDTPG SVDSI PLAEWDHDYDLSRDLESAMSRA LPSEDEEGQDDKDFYLRGAVG LSDVMIPESPEAYVKLTENAIK NTSGDHSALQSIRQLGKALDD SRFQIQQTENIIRSKTPTGPELDT SYKGYMKLLGECSSSIDSVKRL EHLKKEEEESLPGFVNLHSTET QTAGVIDRWELLQAQALSKEL RMKQNLQKWQQFNSDLNSIW AWLGDTEEELEQLQRLELSTDI QTIELQIKKLKELPESCWDHRK AIILSINLCSPEFTQADSKESRDL QDRLSQMNGRWDRVCSLLEE WRGLLQDALMQCQGFHEMSH GLLLMLENIDRRKNEIVPIDSNL DAEILQDHHKQLMQIKHELLES

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9518	39886	A	9578	2	3248	ENAVGSWTDDLTLQLSLLKDTL SAYISADDISILNERVELLQRQW EELCHQLSLRRQQIGERLNEWA VFSEKNKELCEWLTQMESKVS QNGDILIEEMIEKLKKDYQEEIA IAQENKIQLQQMGERLAKASHE SKASEIEYKLGKVNDRWQHLL DLIAARVKKLKETLVAVQQLD KNMSSLRTWLAHIESELAKPIV YDSCNSEEIQRKLNEQQELQRD IEKHSTGVASVLNLCEVLLHDC DACATDAECDSIQQA
9519	39887	A	9579	2	194	CSTSLMIREMQIKTTVRYHLTS ARMAIIKKSK\NSRCWHGCGEH GTLLHCCNLWKERNVSYVSA
9520	39888	C	9580	105	215	
9521	39889	A	9581	1	210	MNSHFLKEDIQMANKHMEKCS \TLLMIREMQIKPTVRYHLTSAR MPIIKKSK\NSRCWHGCGEHGT LLHC
9522	39890	C	9582	48	182	
9523	39891	A	9583	3	225	
9524	39892	A	9584	1	549	
9525	39893	A	9585	367	971	GVCLLGAPAGRRGSLLSLGLSLR GQGSYLSKNVAVPSEATTVREL HP**TSLQRPPSDPGGWVVLGF P\CNQFGHQENRQ\NE\EILNSLK VRSGPGGGFEAQLHGSSRKCEV \NG\SGAHLPLFAFLR\EALPVP DDGPRAL*PTPKLITWFSGVFA TIVAWNFFEKFL\VGPDGVPLR RYSR\AFQTIDIEPDIEALLSQGP
9526	39894	A	9586	1	129	
9527	39895	A	9587	1	406	PTVCERELCVFAFQTLGVMNE AADEIATGAQVVDLLVSMCRS ALESPRKVVFEPYPSVVDPNDP QMLAFNPRQLKFMHTPHQFLL LSSPPAKESNFRAAKKLFGSTF AF/HLHGAMYGSGIYLSPMSSIS FGYSA
9528	39896	A	9588	2	634	SSNRSHIVKLPVNRRLKFMHTP HQFLLSSPPAKESNFRAAKKL FGSTFAFHGSHIENWHSILRNL VVASNTRLQLHGAMYGSGIYL SPMSSISFGYSGMNMKKQKVS DEPASSKSSNTSQQKKGQQS QFLQSRNLKCIALCEVITSSDL HK\HGEIWGCPI/SDHVCTRFFF VYEDGQVG DANINTQEGGIHK EILRVIGNQTATG

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9529	39897	A	9589	3	3623	FGVCARGCLDSAGPWTMSRAL RPPLPPLCFFLLLLAAAGARAG GYETCPTVQPNMLNVHLLPHT HDDVGWLKTVDQYFYGIKNDI QHAGVQYILDSVISALLEDPTR RFIYVEIAFFSRWWHQQTNAQ EVVRDLVRQGRLEFANGGWV MNDEAATHYGAIVDQMTLGLR FLEDTFGNDGRPRVAWHIDPFG HSREQASLFAQMFGDGGFFGRL DYQDKWVRMQKLEMEQVWR ASTSLKPPTADLFTGVLPNGYN
9530	39898	B	9590	1	3839	
9531	39899	B	9591	1	513	
9532	39900	A	9592	1	233	KQELNEPPKQSTSFLVLQEILES ENKGDPNKPSGFRSVKAPVTK VAASIGNAQKLPMCDKCGTVL QQASAAAFSLSV
9533	39901	A	9593	3	469	LTVARSEHKVWSPPLVTGEGKR HPYKMNLASEPQEV LHIGSAHN RSAMPFNASPASSTTARVITNQ YNNPAGLYSSENISNFNNASSL VIDKESEVYKMLQEKQELNEHP KQSTSFVVLQEILESEEKGDPN KPSGFRSVKAPVTKVAASIGNA
9534	39902	A	9594	1	1146	MTTQQIDLQGPWPWFRLVGR KDFEQPLAISRVTPGSKAALAN LCIGDVITAIDGENTSMTNTHLE AQNRKIGCTDNLTLTVARSEH/ KKVWSPPLVTEEGKRHPYKMNL ASE\PQEV LHIGSAHNRSAMPFT ASPASSTTARVITNQYNNPAGL YSSENISNFNNC/ALESKDWLPA GVEANSRPLDHA\QPP\SSLVID KRILKVYKMLQEKQELNEAPPK QSTSFLGFCQEIL\ESIEEKGDPN KP\SGFRSV\KAPVT\KVA\ASIG KCSRKF AFCVDKCWHLGFLGV FLKLR\DRHRHP*VFMCTDC GHQT*KQKGPFLWMDQIYCE ESMAPGSEVNTHPEGIYESGST VFPPSGAQQLDPLFLPAGLLL KLFLKCSGPLSL
9535	39903	A	9595	65	353	

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9536	39904	A	9596	1	1974	MNGVPVGAQKRVDKEEVKNG AIAELFSEDWSDCAYKANEVSR IRPLEESELLYPILGQSKLFVLSG EWSQSSEEASEEVAVTLIYQLA ESPTVICAQIWQGCQAKQALEKL EEKRTSQGDPKESPTMLPTFLL MNLLSLAGDVALQQLVHLEQA VSGELCQRRVLREEQEHTKDP KEKNTSFETTMEEELGLVGAA DDTEAELIRGFCKMELLDGKQT LAAFVPLLLKVYNNSGLYSNP LSAAASPTLGKFCMISTTFCNSQ PHLLFTMLEKSPLPIVRNLIVA TGDLAIHFPNLVDPWTPHLYAH LQDPAQPVWKT VGLVMTHLIL KDMVKVKGQSKAL/RKMLGNF DCFGDKLSDESIFSSFLSVMGKL QHGAKEGKAIIDEFEQKLQAC HARGLDGIEELINQAGSQRAP TAKKPSTVCRHQPLASAASDN DFVTPEPRRTTHRHPNTQQRAS EKKPKVVFSSDESSIKTEVEGLG YNIKLRVATQRLSFVWVMNIA EGESAVLVTVAWPECEVAVMG SLGSAARGTGKRLQEGGNLQL NFVTIATKLEVSWTELGGGCVS ALFASVGTKREKAGFYQGCSF ASNIMKRGRVKEVEDVQKRLI KMTVEFNLAWSLPPHMAMN GDQGGDRVTHESFLRCMTLMR
9537	39905	A	9597	785	5049	ACRSRMAPQMYEFHLPLSPEEL LKSGGVNQYVVQEVLSIKHLPP QLRAFQA AFRAQGPLAMLQHF DTIYSILHHFRSIDPGLKEDTLEF LIKGVYGSVSRHSQELPAIL DDTTLSGSDRNAHLNALKMNC YALIRLLESFETMASQTNLVDL DLGGKGKKARTKAAHGFDWE EERQPILQLLTQLQLDIRHLW NHSIIIEEFVSLVTGCCYRLLEN PTINHQKNRPTREAITHLGVA LTRYNHMLSATVKI
9538	39906	C	9598	134	382	
9539	39907	A	9599	117	235	KIAAPQLHVFLPFLFFCMRPF AFWQPLPEPLELRPLRLSD
9540	39908	B	9600	1	732	
9541	39909	C	9601	1	420	
9542	39910	B	9602	110	928	

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9543	39911	A	9603	1	868	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSLRLSEMPRKQGD YRTRIWKFEGLSNVLVIQLNK LIICVMCLDLALKGLRVLLVEG NDPQGTASMYHGWVPDLHIHA EDTLLPFYLG EKDDVTYAIYFT CWPGLDIIPSCALHRIETELMG KFDEGKLPTDPHMLRLAIETV AHDYDVIVIDSAPNLGIGTINVV CAADVLIVPTPAELFDYTSALQ FFDMLRDLKKNVDLKGFEPPD PTGNRTVQLTWQPLPEPLELC*
9544	39912	A	9604	1036	1119	
9545	39913	C	9605	1	513	
9546	39914	A	9606	1	890	MSKSESPKEPEQLRKLFIGGLSF ETTDESLSRSHFEQWGTLTDCVV MRDPNTRSRGFGFVYATVE EVDAAMNARPHKVDGRVVEP KRAVSREDSQRPDYFEQYKGIE VIEIMTDRGSGKKRGFAFVTFD DHDSVDKTVIQKYHTVNGHNC EVRKALSKQEMASASSQRGRS GSGNFGGGRGGGFGGNDNFGR GGNFSGRGGFGGSHGGGGYGG SGDGYNGFGNDGSNFGGGGSY NDFGNYNQSSNFGPMKGGNF GGRSSGPYGGGQYFAKPRNQ/ GGYGGSSSSSYGSGRRF
9547	39915	A	9607	1	286	
9548	39916	A	9608	1	1674	
9549	39917	B	9609	531	744	
9550	39918	A	9610	1	818	YNRAMFHPhAVNKIALSLNNK NP\RSKVLFLLELLAAVCLVRGG HKL FYLAFDNFKEVCGEKQRFE KLMEHFRNEDNNIDFMVASMQ FINIVVHVSVEDMNFVRVHLQYEF TKLGLDEYLDK LKHTESDKLS\ VQIQAYLDNVFDVGALLEDAE TKNAALERVEELENISHLSEK LQDTENEAMSKIVELEKQLMQ RNKELDVVREIYKDANTQVHT LRKMVKEKEEAIQRQSTLEKKI HELEKQGTIKIHKKGDDGDIILP VVASAHCPWGQKW

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9551	39919	A	9611	1	937	MALLTLKQQQNEDLQDISHFTT TRTPRQGTVPVQKEKSEETRLEW ARRMLRRDQHSTKGKVVKRM RGFLVGLVYCDKQSGALESLLC LWNVSGNTTLSSLVEIGSKAAL GLVCGEKQRFELMEHFRNED NNIDFMVASMQFINIVVHSVED MNFVRVHLQYEFTKLGLDEYLD LLDTKSTDRKQTLHYSISNVVK EQYHQVSLFYNELHYVEKAAA VSLENVLLDVKELQRGMDFTK REYTMHDHNTLLKEFILNNECK LKKLQDDAKIAQDAFDDVVKY FGENPKTTPPSVFFPVFVRVKA YKQAEENMELRKKQEALM EKLLEQEALMEQQDPKSPSHKS KRQQQELIAELRK\RQVK\DNR HVYEGKDGAIEDIITVSLENVLL DVKELQRGMDFTKREYTMHD HNTLLKEFILNNECKLKKLQDD AKIAQDAFDDVVKYFGENPKT TPPSVFFPVFVRVKA YKQAE
9552	39920	C	9612	47	286	
9553	39921	A	9613	1	423	

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9554	39922	A	9614	1	2015	MPSVSKAAAAALSGSPQTEKP THYRYLKEFRTEQCPLFSQHKC AQHRPFTCFHWH/FPQTRRRR\ PLGRRDGTFNYS PDVYCSKYNE ATGVCPDGDCEPYLHRTTGD ERKYHV\RYKYKTGTCTIHETDAR GHCVKNLHCAFAHG PLDLRP PVC DVRELQAQEALQNGQLGG GEGVPDLQPGVLASQAMIEKIL SEDPRWQALLPVALLRHRVAH FSDANFVLGSYKTEQCPKPPRL CRQGYACPHYHNSRDRRRNPR RFQYRSTPCPSVKHGD EWGEP RCDGGDGCQYCHSRTEQQFHP EGPVRESGVRGVFCVQSRRPW LQTPVSGTQLKWSWHHVGH SR TINPEGDKPSRLGPAPENIKRGN DFACDGRADAAGMAPHVCVFP IYKSTKCNDMRQTGYCPRGPFC AFAHVEKSLGMVNEWGCHDL HLTSPSSTGSGQPGNAKRRDSP AEGGPRGSEQDSKQGVRAHGV YVFEQNH LAFVAAVHPPAPSVS SSVASSLASSAGSGSSSPTALPA PPARALPLGPASSTVEAVLALE PTPSSPTSSAVQGVAGELGMGS GGQGCWSHVVGALAAVPAWT HSGDLEWDPSTIRTRVNVGGGP AARPAMTLAREPQLLVVGGCP TRNCSGPAASPQQLDDAGQG GRGERDSSQRPLRPQTTHRQDT
9555	39923	A	9615	2	609	IHSLCVSPCLSPCHCLSLSPASLL VSFFCCLFLMTLFP SLCVCGSLP VHLLPSL/HFLSQVLNEYFHN V CELDLVFNFYKVECFPLKSPVV PESKEIGSQVDGQSRMEQRSPA HTNRENDIAREGGSEETHSKPG KGNLEFRFRCSHLQLGECPIPP WQKERTIAQGPEPEARA AVPA GRHDTRHAVNAGCALIGSLRRP WGGA
9556	39924	A	9616	60	277	
9557	39925	B	9617	43	354	
9558	39926	A	9618	3	309	GGGQGRPGAGGQGRSDGGGQ GSPGGGSQGSPPGSGGVGQGS RGGQGKPGGGGGQGS PDGGGR PLAGGASGRRGSRGQAQ/CPISV SATHLAF
9559	39927	A	9619	36	363	

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9560	39928	A	9620	1	512	MLMPGLSACVRDCVAFLQAVV LGDPSPAACQCDTWTLAASAD GTCKAVGTEDGSVYFISVYDKE SPQVVHKAFLSESSVQHVVYD QQGIFLLVGTAEGKVFIINANSS SSFQIIGFT/DGGQRHFTDIHSVS FRNRHSGSDGAFLASRSREKQV GDVHTAYITATSFHNL
9561	39929	A	9621	1	822	MKLGV/QVVITDHEKLDQIRQR ESD\ITKERIQKILATGANVILTT GGIDDMCLKYFVEAGAMAVRR VLK/RIAKASGATILSTLANSKA HTSASIILRGANDIMCGEMERSL HDALCVVKRVLESKSMVPGGG AVEAALSIYLENYATSMGSQKE LAIAEFARSLVIPNTLAVNAA QDSTDLVTKFRAFHNEAQVNP EHKNLKWIGLDLSNGERGDNK QAGMFPTIVKVKSLKFATEAA ITILRIDDLTKLHPESKDDKHGG YEDAVHSGALND
9562	39930	B	9622	625	1162	
9563	39931	A	9623	202	402	
9564	39932	A	9624	350	652	SAGGYPDGQGVHPGPPELFAAL GRLGHTLREHGHLLRYHRPG HMGRRLPCRMGHREPGSLH* QDCPRAWQWCWPHRPGHLQD VPPPGIHLQRLSQPGP
9565	39933	A	9625	83	1503	SWNTPYNHWATKQ/LSSHYSR GGAKYEGEAVKQSLVESYTHP NSNETERSANIDTMNWFTKE DFDFVTLCYREPDNVGHRFRPE AENRKLMIQQIDRTIRPWDDHR EEETQCQDPLSNYIKFMDLVK FDIVGYGGFGMPLPKLGQEEAL YQALKNAYPHLHIYKKEGFPEH FHLAKHDRVLPIVMYANFGYSI NGISLLYFYTHLCDKYFNVHFF HEPLSLWRAQTTPSLSHRYISLV RHMDATNLDASEAQLPGSPYP DSAPGPANLDSTQDLPQRRLSW PYPRPRPPNAHPGALQAPRTL LLTLPPGPAPSLPPRTALGPPPL QSRPGFRPVSRQRCGPAHFMAP EENAGTELLQLQSFERRFLAART LRSFPWQGGGGRAERPAGLAG VQQGTGWVSVLKPPALLPREFL GSPRSGPRDPVPVPGA WPKSLA PLLPRELAAEDEGVSTALGGQT RARCGVQFTIIFTTF
9566	39934	B	9626	1	1177	

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9567	39935	A	9627	1	283	
9568	39936	A	9628	1	708	MPKGKEAKGKKLALAPAFVKK QEAKKVVNPLFEKRPKNFGIGQ DIQPKRDLTCFVKWPRYIRLQW QRSILYKQLKIPETKQEKKWRL LAQAE/SVGKGDLPKRLPVFR AGVNTVTTTFVDNKKAPLVVTT HDMDPIELTVFLPVLCHKMGA TCCIIKGKARLGCLVHRKTYTT VDFTQVNSEDKGALAKLVEAI GTNYNARYDETHCHWDGNVL GPKSVAHIAKLEKAKAKELAT
9569	39937	A	9629	1	836	GTRPKMPKGKKAKGKKVAPAP AVVKKQEAKKVVNPLFEKRPK NFGIGQDIQPKRDLTRFVKWPR YIRLAQRQRAILYKRLKEPPAIN QFTQAL\DRQTATQLLKLAKH\ YRP\ETKQEK\KQRL\LARAEEK AA\GKGDVPTKRPPV/LFRAGV KQSPPLVE\NKESFSLVVISH\D VDPIELVVFLPALCRKMGPVY CIIKGKARLGRLS\HKKTCTTVA FTQVNSEDKGALAKLVEAIRTN YNDRYDEIRRHWGGENVLGPKS VARIKLEKAKAKELATKLG
9570	39938	A	9630	3	119	
9571	39939	B	9631	1	711	
9572	39940	B	9632	97	942	
9573	39941	A	9633	1	588	
9574	39942	A	9634	1	1029	
9575	39943	A	9635	1	1031	MADQKEARHSASQWKCFVGFL SFRGHMQVAWEADRCKGPGRP LLAEALQDLWSPRRSQRPVP ERPCRRPQQSPLPRFGSLAPLH RENNFIKDFPQLADGLLVIPLV EEQCRGVLSEPLPDLQLLTGDIR YDEAMGYPMVQQWRVRSNLY RVKLSTITLAAGFTNVLKILTKE SSRELLSFIQHYGSHYIAEALY GSELTCTIIHFPSKKVQQQLWLQ YQKGFLGEPKKILGSSLPRTQF LWKNNHLITKQTVSILSCGEAFI LRKGQQISFSSDSQLLSELEFLR PGAGDQSLPHTLVKVIPFPQFS L/LCEMGTFILFCNINCAWGRG RGERYSQSC

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9576	39944	A	9636	3	4091	FASASAVSAAASSSFATAATA AAARSTAAPPAMAAAGARLSP GPGSGLRGRPRLCFHPGPPPLLP LLLLFLLLLPPPLLAGATAAAS REPDSPCRLKTVTVSTLPALRES DIGWSGARAGAGAGTGAGAA AAAASPGSPGSAGTAAESRLLL FVRNELPGRIAVQDDLDNTELP FFTLEMSGTAADISLVHWRQQ WLENGTLYFHVSMSSSGQLAQ ATAPTLQEPSEIVEEQMHILHIS VMGGLIALLLLLLV
9577	39945	A	9637	2	398	SDARVDALNKIKIWERIKKHLE GHSTNLSLDIAKLKEQIFEASQA HLTLMPGTGVLEGAADRLSAS NPLKWIKTLGSSVISMMIVLLIC VVCLCVCRCS*LLREVAHRD KAAAFIALQIKEGEHVGNST
9578	39946	A	9638	201	495	WKKTLMPGTGVLEGAAN/GLA AINPLKWIKTLGDSVISMMIVLL IC/VCLCIVCRCSRLREVAHC DKATFAFIISEKMWYFGFCFCN NSLRVIASSCIH
9579	39947	A	9639	3	409	GIYILHQKKTWEK\LLLAACAIV AIENPADVSVISSRKTGQKATPL FAAVTGATLVAGCFTPRTFSNQ ISAAFREPQLLVVTDPRADHQP LTEASYINLPTIALCITDSPLHYV GLAIQCNNKGAHSGGLTCNLS
9580	39948	A	9640	3	438	
9581	39949	A	9641	288	489	SFRPLSVLGDCVVRGPTKPSGK CSPASRSLFVRRHILLHPQGLH NLDQNKATPPPQPLAGHQTAC
9582	39950	C	9642	23	411	
9583	39951	A	9643	1	209	SPSTTAVCCPPRPSIDFHSSGSSR VSAALLIQ/QRFPPLWIGLKAR HCSCGLRQRQVSWQETEDGK AG

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9584	39952	A	9644	28	925	PEAGTRSWREPDPEDLRRFLLS AACRSFPQWLPGGGGGQVSSC SDTDVPYLLLA VKSEPGRFAER QAVRETRRKPTS\GIRLLFLLGS PVGEAGPDLNSLVAWESRRYS DLLLWDFLDVPFNQTLKEP/VL WLPGWAGPCPTGSFVLRAQDD AFVHTPALLAHLRALPPASARS LYLGEVFTQAMPLRKPGGPFY VPESFFEGGYPAYASGGGYVIA GRLAPWLLRAAARVAPFPFED VYTGLCIRALGLVPQAHPGFLT AWPADRTADHCAFRNLLLVRP LGPQASIRLWKQLQDPRLQC
9585	39953	A	9645	1	1612	MIFVVIILMVVLSPEGGSGLDSS PFLSEANAERIVQTLCTVRGAA LKPYPPTGPNFRYSHGVPPHLF AYFPPGSTVSQDNSFISPLQHI FERVRQSADFMPRWQMLRVLE EELGRDWQAKVASLEEVFAA ASIGQVHQGLLRDGEVAVKIQ YPGIAQSIQSDVQNLLAVLKMS AALPAGLFAEQSLQALQQELA WECDYRREAACAQNFRQLLAN DPFFRVPAVVKELCTTRVLGME LAGGVPLDQCQGLSQDLRNQIC FQLLTLCRELFEFRFMQTDPN WANFLYDASSHQVTLLDFGAS REFGTEFTDHYIEVVKAAADGD RDCVLQKSRDLKFLTGFEKAF SDAHVEAVMILGEPFATQGPYD FGSGETARRNQDLIPVLLRHRL VSP\PEGDLWPWHRKL\AGAFL ACAHLRDHIACRDHKGHLPLPL LGQSPARRSHCRQPPHQRGTPG WIPHDSLHGGFSPQSRPYPAVV PLIPSPSALGQRSPLGLPSLAWL SSLAQELRIPGAGELPTSCPRSC TSPLESEVSEN
9586	39954	A	9646	930	1123	GVRRDGSSASVTVGQPCRDTSL AFETVAGPYLA*KT*TSGKPGS D*RASKVAGGVQNGTRTTAT
9587	39955	A	9647	719	1346	

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9588	39956	A	9648	1	823	MKKVLIAALIAGFSLSATAAETI RFATEASYPPFESIDANNQIVGF DVDLAQALCKEIDATCTFSNQA FDSLIPSLKFRRVEAVMAGMDI TPEREKQVLFTTPYYDNFALFV GQQGKYTSVDQLEGKKVGVQ NGPTHQKFIMDKHPEITYVSDE SYQNAKL\DLQNGCAARAAPG SRRYGGWTIQASTARPSDVLLT ADSVSFAVRSRGAAATAYHRC CLSGVMVNAATACEHSTASQG RASRTVTD\ADPHPRSVRRRAS FRRSGRGFCGTVR
9589	39957	A	9649	583	730	
9590	39958	C	9650	333	439	
9591	39959	A	9651	2	171	
9592	39960	A	9652	1	826	MGGLFWRSALRGLRCGPAPG PSLLVRHSGTIMGVFVAVGTI PVPSRVPCIEADTLKPGPSWT RERTLVAVKPDGVQRRLVGDV IQRFERRGFTLVGMKMLQAPE SVLAEHYQ\DLRRKPFPPCPSSR YMSSGPV\AMVWEGYNV\RA SRAMIGHTDS\AEAAPGTIKGV DFS\HISRNV\IHASDS\VEGAQR EI\QLWF\QSSSELVSWA\DGQGH SSIHPGLRLRAALTTPSPTQDPT YPPLARTPSPTSKPALSPNPLTS PVSPLAPPQAQREF

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9593	39961	A	9653	144	1650	NCETTTKGSAILRNVDPSLLPL RRAGSSPGLMPVEEEMEIDE EK QMKGFLDDSERMAFLVSLHLG AAERWFILQMEVGEPLSHENKS FLRRSQGIYDSLSEIDILSAVLC HPKQGQKSVRQYATDFLLAR HLSWSDAILRTRFLEGLSEAVT TKMGRIFLKVAGSLKELIDRSL YTECQLAE EKDSPGNSSQVLP ACKRNNEEAMGNELSSQQQTE EHQHVSKRCYYLKEHGDPQEG LHDHLGQSTGHHQKAHTNNVA ATKKVVQQLQLEAGLNSVKVS QAATEPQTIISPPNALQEPSGIE WEQFPKAQIPSEPQENLCPFVST MNSIKGLHEDYQGNAGKVLST VPGRRYALQNLGTAIVQGEER KQSSLCPGEEGKRHELRS GSHS LVMKHAMVLFNVGFETKDQIH LPTRLGMAEVETLCIYAKQLPH KLIAKLRLLKGTRPLSLNNEHIL THPGLEGWLHTEFFRILSINNKY HLSAYLVQSIVLHVMGFHRKT
9594	39962	A	9654	8	440	VFERSTPPTLETVRSKQEWETR LNGVRIMKKNVRDQFN SHIQL VRNGAKLSSLPOIPTPTLPPPPSE TSCFRFCFNPVPLWLLGCPSP LG RQTGEDPGEAADPVPTVQ*GPD DQHSSADQDSTYHHGRPDHGG TYPVGCCTTGRT
9595	39963	C	9655	89	389	
9596	39964	A	9656	1	184	
9597	39965	B	9657	1	942	
9598	39966	A	9658	424	614	NDGPDWGGRRRET DVNRKRGF KISKTLYLYSDIYSCHVHFYYIG NVCIESLYSNVRK*NYVYY
9599	39967	A	9659	1	717	
9600	39968	A	9660	103	374	
9601	39969	A	9661	1590	2051	SYPVSEERSQAEQPSSNPYSHFT STPIRDLHASGVSTQSLSGSSD ALLHWAGHNAHG YAQCRSPLL VFPNPEPCFPFAQPAFLTPSWLP WQK*PWLGFP CQPPRSTHAPCR LHPTSP\GLGGVKASAETPRPQP VD/ETGEDPGEAADPVPTVQ

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9602	39970	A	9662	1	2912	MAQALPWLLLWMGAGVLP GTQHGIRLPLRSGLGAPLGLR LPRETDEEPEEPGRGGSFVEMV DNLRGKSGQGYVEMTVGSP QTLNILVDTGSSNFVGAAPHP FLHRYRQRLSSTYRDLRKG YVPYTQGWEGELGTDLVSI GPNVTVRANIAAITESDKFF SNWEGILGLAYAEIARPD PFFDSL VKQTHVNLFS AGFPLNQSEVLASVGG DHSLYTGSLWYTP
9603	39971	A	9663	1	902	MSAKEKGKFENMAKADKV VREMPTYIPPKQETKKKFKDP APKRPPFS/SEYCPKIKGEHP STGDVAKKLGMRTNSAADDK WPYEKKAALKKEKYRKDTAV YRAKGKPDAAKKGDVKAES KKRKNEKDEEDEDEDEDEDE DDDNEYADNECTGFSGFVYKT FNSPVHNSLFLNVEIHALGDEL LESIFCILLVVEVFSLQGVAML EEVVNGERSGRSLPWLPAAPS LPVPVPLGLRHPPSQSDNLSLQ LTFLTALRLRLPRLGAVLEETV EDGRTKTNLPDENSVPFSPET
9604	39972	A	9664	146	733	LNMKGKDPKKPRGKMSSYAFF VQTCREEHKKKHPDASVNFSEF SKKCSERWKTMSAKEKGKFED MAKADKARYEREMPTYIPPKG ED/TKKKFKDPN\APKRPPSAFF LFCSEY/RAPKIKGEHPGLSIG DVAEETGEEMW\NNTAADDKQ PYEKKAALKKEKYEDIAAYR AKGKPDAAKKGVVKAERSTR PRIPDL
9605	39973	A	9665	30	359	
9606	39974	C	9666	418	555	
9607	39975	B	9667	550	1717	
9608	39976	B	9668	1	1705	
9609	39977	B	9669	328	484	

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9610	39978	A	9670	5	1215	IIVLPKMSMPVVSAQLTITSIPP WAVE/WGNVTLVQGIQNLIS YNWLRGATTNQVTRILNFFFS HGYTLGPAHTGRETGRADGSLI IIDVRASDNGIYTLHLISSGE\KV AIMLCYLSLLVAPWHFHKTPR WRFPWGPRAASQRASCSQPQS WSSGCSK/VSQAALYIQIPEQP QKNQDLLLSVQGVDPDTFQDFN WYLGEETYGGTRLFTYIPGIQR PQRDGSAMGQRDIVGFPNGSM LLRRAQPTDSGTQVAITINSE WTMKAKTEVQVAEKNKELPST HLPTNAGILAATHIGSLAAGALL ISCIAVLLVTRNWRGQSHRMAT TEKPELGPAHDAGDNNIYEV PSPVLLVSPISDTRSINPARPLPT PPHLQAEPENHQYQQDLLNPDP APYCQLVPTS
9611	39979	A	9671	1	558	EGGLRTPSNPYHVDISQTKPCH *TNHCIQKEYSKNYGKYEEGNE MFFKEFNQYLTSALNITLESSIL LQIKHII RNCLLSVEPAISTKHLP \YQSFQLFGDFMVDEELKVWL IEVNGAPACAQ*ACTSLCFYKW EVGSAVGIVCGYKCSHFDCCEG GCHSDRRPLGGLYLAGGFAESL PFLFPRV
9612	39980	A	9672	1	534	MVGVDVTFKVISREERQTQRL GSSSPKRCPLEQEFEHEYSSFFG RNCLLSVEPAISTKHLPYQSFQL FGDFMVDEELKVWLIEVNGA PACAQSPAKSL/CATSSSLFLSPP PWTCQQHSRQPTALAELLSCH GWTRGAGQACLWAFVLSVTC VWNPHHHYHHHHQPYRGWLL LYQNIL
9613	39981	A	9673	624	805	SGGHPGHWLPPNPMASPGATT PVGEG/ELQYASLSFQMVKPWD SRGQEATDTECSEIKIHR

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9614	39982	A	9674	1	1005	MENRRKVKGEWIAVPQPVKEL RGVLNAATTLSKTRILRGKCF QLTSPTGNEPSHLSWTPRKRSR DGHPCPDPLAASGARPLRSSS AFAAAAADSGSTVQVWDKGV LRVADVWSTIEPVTHVNLGWA AKVGPIISHGSAVISAFSKEGMF RIFSERKTLLAKLRDFQNTQLR KLFSEMEKAAGRSQSGVSFGQ KGLGDRACEEMSENPOKGRKK PKAPQEVSFRENGNWKTP\SIFF SPKTPRKKKSF\KEELMS\SSD\L EETR WQAPSIPKRKKSTPKEET VNDPLEVAGH\SGSKKKRKFS K\EEPVSSGP\EEAAGKSSSKKK- KKFHKASQED
9615	39983	A	9675	1	2742	
9616	39984	A	9676	1	405	MADIPQEARQYRHKQAYAYSI QGEGVEDDDERIVRFHTRWPL QNADGTVAEYNGYHVVFALA GSPKDADDTSIYMFYQKVGDN SIDSWKNAGR/VLKDS\DKFDAN DPILKDQTQEW\SGSATFTGSVF LAFGCYSK
9617	39985	A	9677	3	642	GKGLFDDDEESDLFMEAPQD RQAGASVKESSSSKPGKKIPA GAVSVFLGDTDVFGAASVPSLK EPQKPEQTPRKSPYGPPTGLF FFSAPHSKPSKTRKVQSTADIFG DEEGDLFKEKAVASPEATVSQT DENKARAEKKVTL\SYSKNLKP SSETK\TQKGLFSDEEDSED\FS SQSASNLKGASLLPGKLPTSVS WFDDDEEDNLLGVQ
9618	39986	B	9678	175	1422	
9619	39987	A	9679	1	3096	MVTHQQPAARKPNMTSKPKPK MGPKAHGIFSGTRKNNLEIYMD QTRTGIATKLSKNNKSGGMT LPDFKLYYKAIVAKIACGGSMY NSDTDEDEETEPSSSGQIIENSI TMNKMKLLKAKMKNMNL\SKK HITQVSDEEEDDDGCDLFADSE KEEKDIEDIEENTRPKRSRPTSF ADELAARIKGD\AVGRVDEEPTT VSYEDDRRGKNQDAYTEGGLS TIKTVNCSSSLPSGEAKLRKTL/ KEKKERRTPSDDE
9620	39988	A	9680	1	2925	
9621	39989	A	9681	2	688	
9622	39990	A	9682	1	1005	
9623	39991	B	9683	1	588	

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9624	39992	A	9684	1	2763	
9625	39993	A	9685	2	1075	NSDEELLFSHKLQKDNDPDVDL FAGTKKTKLLEPSVGSFLGDDE DDDLFSSAKSQPLVQEKRRVV KKDHSVDSFKNQKHPESIQGSK EKGIWKPETPQ\AHQVSLHLKP NEPSTRIGKIQANLAINPAALLP TVAASQIS\EVKPVLP\ELAFPS EHRRSHGL\ESVPVLP\SGEAG VSFDLPAQADTLHSANKSRVK MRGKRRPQTRAARRLAAQESS EAEDMSVPRGP\IAQWADGAISP NGH*PQLRAASGEDSTEEALA AAAAPWEGGPVPGVDTSPFAK SLGHSRGEADLYDSGDIFSRAP GSQ/SVERPNPRQRSRDLPPPGW KQRPRSGKQPRKRPS*QPKHP LPKGR\TSSPW
9626	39994	A	9686	1	4086	VTPRAAWLGLGFRGSAVLGLC WQPRSPPSRAAGMMNR\TPDQ ELVPASEPVWERPWSVEEIRRS SQSWSLAADAGLLQFLQEFSSQ TISR\THEIKKQVDGLIRETKATD CRLHNVFNDFLMLSNTQFIENR VYDEEVEEPVLKAEAEKTEQE KTREQKEVDLIPKVQEAVNYG LQVLDSAFEQLDIKAGNSDSEE DDANGRVELILEPKDLYIDRPLP YLIGSKLFMEQEDVGLGELSSE EGSVGSDRGSIVDTE
9627	39995	A	9687	1930	5781	RAKSPANIIMTGSNSHITLTN VNLNSPIKRHLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSDLQRDLDSHTLIMG DFNTPLSTLDRSTRQKV\NKDTQ ELNSALHQADLIDIYRTLHPKST EY\TFFSAPHHSYSKIDHILGSEA LLSKCKRTEIITNYLS\DHSAIKL ELRIK\NL\TQSR
9628	39996	A	9688	1	3654	
9629	39997	A	9689	1	5127	
9630	39998	A	9690	1	3663	

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9631	39999	A	9691	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTTHSKASRRQEITKIR AELKEIETQ
9632	40000	A	9692	1	3489	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLTDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKWKRTEIITNYLSDH SAIKLELRIKNPTQSRSTTWKLN NLLLNDYWVHNKMKAEIKMFF ETNENKDDTTYQNLWDAFKAVC RGKFIPLNAHKRKQERSKIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKTDRPLARLIKKKR EKNQIDTIKNDK
9633	40001	A	9693	1	3235	
9634	40002	B	9694	1	3300	

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9635	40003	A	9695	1	2563	MKAEIKMFFETNENKDTTNQN LWDAFKAEVEESLNRPIITGAEI GAIINSLPTKKSPGPDGFTAIFY QRYKEELVPFLLKLFQSIEKEEI LPNSFYEASIIIPKPGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFFPGMQG WFNIRKSINVIQHINRAKDKNH MIISIDAEKAFDKIQQPFMLKTL NKLIGDGTYFKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCP SPLLFNILLEVLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTSNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRAHITKSILSQKNK AGGITLPDFKLYYKATVTKTA WYCYQNRDIDQWNRTEPSEITP HTYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKLKLD PFLTPYTKINSRWIKDLNVRPKT IKTLEENLGITIQDIGMGKDFMS RTPKAMATKAKIDKWDLIKLK SFCTAKETTIRVNRQPTTWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWEKDMNRHFSKED IYAAKKHMKKCSSSLAIREMQI KTTMRYHLTPVRMAIIKKSGNN
9636	40004	B	9696	1	3420	
9637	40005	A	9697	1	3579	MPGHNLKWKLNRGTVLIETGI QLSTSTILGSASEPPSAPIPKAQV SSTEKLNRNCIDDLKPPALASEL SRRAKALQIAGFPMPKVPRTDI SKVCLDKTVGKLCHSGEESRK CTLICNNKHYPIDNLQGYKTQ NKFLNKEILELSALRRNAERRE RDLMAKYSSLEAKLCQIESKYL ILLQEMKTPVCSSEDQGPTRVI AQLLEDALQVESQEPEQAFV KPHLVSEYDIYGFRTPEDDEE EKLVAKVRALDLK
9638	40006	A	9698	1	4371	

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9639	40007	A	9699	1	1825	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHHIYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLTQNHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDDTYHNLWDTFKA VCRGK FIPLNAHKRKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRLLARLIKKKREKNQI DAIKNDKGDITTDPTIEIQTIRE YCKHLYANKLENLEEMDKFLD TYTLPRLNQEEVESLNRPIGTAE IVAINSLPTKKSPGPDGFTAKF YQRYKEELVPFLLKLFQSIEKE GILPNSFYEASIIIPKPGRDTTK KENFRPISLMNIDAKILNKKLA KRIQQHIKKLIHHDQVGFIPIGM QGWFNIRKSINVIQHINRAKDK NHMIISIDA EKAFDKIQQPFMLK TLNKL\GIKYLGIHLTRDVKDLF KENYKPLLKEIKEDRNK WKNIP CSWVGRINIVKMAILPKNILITL QLLLVLPSTLIPLWLPALAGQ
9640	40008	A	9700	1	4449	
9641	40009	A	9701	824	3693	AWKGTDDRSTRQKVNKDTQEL NSALHQADLIDIYRTLHPKSTE YT/FFSAPHHTYSKIDHIVGSKA LLSKCKRTEIITNYLSDHSAIKL ELRIKNFTQSRSTTWKLNNLLL NDYWVHNEMNAEIKMFFETNE NKDDTYQNLWDAFKA VCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERITKSDRPLARLIKKKREKNQI DTIKNDKGDIT
9642	40010	B	9702	1	2858	
9643	40011	A	9703	1	3354	
9644	40012	B	9704	288	3301	
9645	40013	A	9705	1	3457	
9646	40014	A	9706	1	4794	
9647	40015	B	9707	1	3384	
9648	40016	A	9708	1	3345	
9649	40017	A	9709	1	3780	
9650	40018	A	9710	1	3720	
9651	40019	A	9711	1	3894	

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9652	40020	A	9712	1	3335	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAELEKIETQ
9653	40021	A	9713	1	3780	
9654	40022	B	9714	1	3855	
9655	40023	A	9715	1	3345	
9656	40024	A	9716	965	4362	TWKGTTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEYTFFSAPHHTYSKI DHIVGSKALLSKCERTEIITNYL SDHSAMKLELRIKNLTQNCSTT WKLNNLLLNDYWVHNEMKAE IKMFFETNENKDTTNQNLWDA FKAVCRGKFIALNAHKRKQERS KIDTLTSQLELEKQEQTTHSKA SRRQEITKIRAELEKIETQKTLQ KINESRSWFFERINKIDRPLARLI KKKREKNQIDT
9657	40025	A	9717	1	3921	
9658	40026	A	9718	1	3988	MTGSNSHITILTLNINGLNSAIK RHRLASWIKSQDPSVCCIQETH LMCRDTHRLKIKGWRKIYQAN GKQKKAGVAILVSDKTDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSILDR STRQKVNKDTQELNSALHQAD LIDIYRTLHPKSTEYTFFSAPHH TYSKIDHIVGSKALLSKCKRTEI ITNYLSDHSAIKLELRIKNLTQS RSTTWKLNNL
9659	40027	A	9719	32	583	GPHGAFTHGRR/RFGRDPYEGP RRTGKRKQKSARGCIVDANLSI LNLVIVKKGEKDIPGLTDTMVP CHLGPKRASRICKLFSLEDDDD VHQCVRKALNKEGKKPRTKA PTTKYLVTPHVLQHEWWHIAL KKQRIKENKEVAAEYAKLLAK RMKEAKEKHQEQUIAKRRRLSSL RASTSKSESSQK
9660	40028	A	9720	318	605	

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9661	40029	A	9721	1	649	MGLKGQGV EGGLLRQSGSVSL QPLSREDLGRSQSESLGPEFQGL WEWLPVERVERENLSDYCVLG QRPMHLPMNQLASLGKTNEQ SPHSQIHSTPIRNQVPALQPIM SPGLLSPLSPQLVRQQIAMAH LINQQIA/S*PAPGSPASSSHQPA VPEPS/IPSPEQLSQSQPTLPWKS LQISTSKSEMS*RGVPCPKLSLQ EWHSTAHRNLKTWKKD
9662	40030	A	9722	15	272	KPQWPGIPSGPPPGSCFKC*KS GHWAKECLQPRIPKPCPICAGP HWKSDCSTHLAATPRAPGTLA QGSLTDSFPDLLGLAAEG
9663	40031	A	9723	96	531	VQPADLLRPLHTDTCNIWCQRP GTEGLLRETGPLSS/PLTP/MRRS TYDLRSSDQKEHLTDFKSGSC FKCRKSGHWTKECQQPRIPPKP CPICAGPHWKSDCPSCPAATPR APGTLAQDSLTDSPFTDPKGS LI DYFPDLLCLVAED
9664	40032	A	9724	3	567	GRLQTGADPAWRVHGTWRSTS AADAIDQMWPVPMRTWRLNE RHYGGLTDLGKAETAAKHGEA QVKIWSNISKDRRYADLTDDQL SSCESLKDTIASALPFWNKEIVP QIKEGKWVLIAAHGNSLRGIVK HLEGLSEEAIMELNLLTGPIVC KLDKSSKPIRCMEFLGDEGTLC KAMEAVAAQ GKAKK
9665	40033	A	9725	2	801	GGVPHQPAAAMAAYKLVLRH GESAWNLENRFGWYDADLSP AGHEEAKRGGQALRDAGYEFD ICFTSVHLYAIRTLWTVLEMP SEMWLPVVRTWRLNERHYGG LTGLNKAETAAKNGEAQVKIW RRSYDVPPPPMEPDHPFYSNISK DRRYADLTEDQLPSCDRLKDTI ATALPFWNEEIVPQIKEGKRVLI AAHGNSLRGIVKHLEGLSEEAI MEL\NLPTGPIVYELDKNLKPI KPMQFLGDEETVRKAMEAVAA Q GKAKK

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9666	40034	A	9726	3	573	VAPVVQVWKEMHKLLPFSPDS VVTHGDISIDSGIFDQDKLIGRI DVGRVGIACGCQDVAIVWNYL AACSVDRNTCRIMRPNCRPEVE ETPGLKEEKELSQPKEGEATDL KKEVEKISSSEEEETVNLKEEVE KIPPEEETMDLKEEKEEIPPEL RDQKLMHVLKDLEPVSAVPHK DSLFGQLTTVPV
9667	40035	A	9727	2	685	TLYCRVFLLDGTEVSVDLPKHA KGQDLFDQIVYHLDLVETDYF GLQFLDSAQVAHWLDHAKPIK KQMKIGPAYALHFRVKYYSSEP NNLREEFTRPKITKMDFKKSKL TLVVVEDDDQGREQEHTFVFR LDSARTCKHLWKCAVEHHAFF RLRTPGNSKSNRSDFIRLGSFR FSCFS/ERENAHSTGNPALRER PGDGSVSREGRWVDEGWPQRP GGRGQNALCSVP
9668	40036	A	9728	1	419	MSKFGRATRGLRKPEVGDVIRT IVRAGLAMPGPPLGPVLGQRR SINQFCKEFNERTKDIKEGIPLL TKIFLKPDGTFEIKIGQPTVSYF VKAAAGIEKGARPT/DLSSEFA AFQKEQAIFLAAQKKADLATQ EEAAKK
9669	40037	A	9729	97	826	SQLPRIMSKLGRAARGLRKPEV GGVIRAIVRAGLAMPGPPLG\N VLGQRGVSINQFCKEFNERTKD IKE\GIPLPTKIL\VKPD\RTFEIKI GQPTVSYFLKAAAGIEKG\ARQ TGKEVAGLVTLKHVYEIARIKA SGLRAFALQDVPLSSV\VRISIIS ARSLGTSRGERTSSSEELAAFQ KERAIFL\AAQK\EADFGLPKKE AAKEIDPLPHQLPDFQKEVSLQ KLCPRGGRRSHQYDDGFHDFE
9670	40038	B	9730	273	418	

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9671	40039	A	9731	69	1565	RRRRFQASGAAAMLSSRAEAA MTAADRAIQRFRLTGAAVRYK VMKNWGVIGGIAAALAAGIYV IWGPITERKKRRKGLVPGLVNL GNTCFMNSLLQGLSACPAFIRW LEEFTSQYSRDQKEPPSHQYLS LTLHLHLKALSCQEVTDDEVLD ASCLLDVLRMYRWQISSFEEQP HFQDGLVQLRVGVVCRHYPEK WEAASWTSQNCGADDAHELF HVITSSLEDERDRQPRVTHLFD VHSLEGHPLTLDHCLHHFTQSE SVRDVVCNDCTKIEAKGTNG EKVEHQRTTFVKQLKGLKPQ CLCIHLQRLSMVQPGTPLKRHE HVQFNEFLMMDIYKYHLLGHK PSQHNPKNKNPGPTLE/HAGW AGSPHTSSESARGPQNTDFYEW RLLPIFIANA VSADALPSPCSR LQLLHIPLPADGQLSSTMGDMA LWDTLFIYRRSPPSARNPLSTSN QWLWVSDDTV RKASLQEVLS SAYLLFYERVLSRMQHQSQEC
9672	40040	A	9732	1	1393	PLQLQPRHIGAQIQLGPLLQRV QAIRLGSFHMVLSLW/VMQSAR VEILEPPRLQRMYGKAWRISL CPQGLSTVMRSELTASSTPQVQ EILPPQSPEYLGPKGITERIHKIM HVKGLAKLPANRNQSPGVSG KRLVNCVSASAVDSEPAAVPEP DVCAGIVIKKQCFPIARCNT KQVDSIPHRA YAKSPFFPAVV VVTSESKDPRVKQNPHTPLAE GSNAAHFHKT KISQSLKWLPVG YLNSTTYEYRDLTKGLSLLCSL LLGVEADIPSMAGLHVRHLMQ VPQQPCIAFAVSSPLHQGGKET EDAWSFHIPSTIHRWPTSPSVQL SSLRASTQLLCLHINLAKCFIWG ILAQVLSCHHHRITQFVGMLTF VCAGDSSKLSPIRDLVRRITS YLVASVLLKSKQMALCSASRI LDVSVSPGDHVASEARARCAP DLVAPRPMHQNQGSLEWTEE
9673	40041	A	9733	44	282	FSCLILHDAFPCLILHDAFPCSL CSV TGSLVLSRVPLRGTHQKSA IATSTKIALSNM/KILKHHTDAY FKKQQLFFDVSKK

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9674	40042	A	9734	3	381	EQQGQR/SQWWRGAAARVSRTV KRVLCE/VVECPLKSACPDVDM YWAALQRLASLLKADGNLVT MAALHSHYMGSKKFFGLHPE KETVEKAMQEAGCQVQRCA/SI SCSETCSINDGICFVAACKGPSV
9675	40043	A	9735	2	209	CRHSTQHCVS/HHGHSQYK/DS HQHYSHYHHHNHPHHHHQSPY LHHHHYDCHLHHHHHNDHYH RHISVYDI
9676	40044	A	9736	197	3348	RVVQTDMIKGMLETSLKISLD QAFIRICLNSTCFRPGKGLVIK/C EKSINSASLVSTSQRISCRPKTHI SKNYGNNFLNSSLLTQKQEVH MREKSFQCNESGKAFNYSSVLR KHQIIHLGAKQYKCDVCGKVF NQKRYLACHRRCHTGKKPYKC NDCGKTFSQELTLCHHRLHTG EKHYKCSECGKTF SRNSALVIH KAIHTGEKSYKCNECGKTFSQT SYLVYHRRRLHTGEKPYKCEEC DKAFSFKSNLERH

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9677	40045	A	9737	1	1665	MAGACWLMAFQYWVLKLLVV KSA/SWPRQSSLKWNWNFKGC QDLETWGKKETRKFYGYRRNE EAQKYSCRIPKPD*WCHCWQ W**WLMAFQYWVLKLLVVK AYGLVKALSNGIGISKVAKTW KPGGKKRLENFMAIEEMKKHR STHVGFPENLTNGATAGNGDD GLIPPRKSRTPEQQFPDTENEE YHRDFSKLCLGSAANGVVHVE VKMCVYNGKGERQEEKMKGLI SMNLVVEEEMKKHESNNVGLL ENLTNGVTAGNGDNLIPQRKS RTPENQQFPDNESEEYHSLGDK SKTSFQNSNNNNKQQEQQQQ NPTFSNTRKLTLYKAPIPPSIIL SGCPNINDSNWQIEHGMQTA GLPTRPLSHGLQQKGAAFRC LG CKCSEPFTGSLILQKAKTNTQK WQATYPKSQNEQLVPSVGKSY RCSTPAQPMKTAVGHKPKCAT GAELPKALGAQPLHPCALDVG QGFKKGNFGAVGLNGLLGLF HGVSGVLLVGP GDGGLISEGVV REDLMCGVWSAGTWSVGTAE RCLEKPGALHVIEGPLDSWDGP VMPNGPVKSRQSSCLDGPGR CSEILTGQSHGNKKPARASSKS SQSINDRPLAVLTNQYQCEQLA SERQPSSNSCSIRIDSA
9678	40046	A	9738	1	115	RRTARGPQQTSTDGLGTSPCRN ASEHTADILELSTLIV*RRQ*ICL CLDFLYY/LIPEGRCFCRACDLV HNFDTIILQHQRTLTSQGVDDF LKAKATFKASDFIDALVLSKVA SPRILIQGGRMGA*DQVSDQAS VYGRCSSSGAEAAKRPKSAWL LLGYDSRASGLY*ILYNLT KHP D/YRECCQPMQES*S*RR TAR GPQQTSTDGLGTSPCRNASEHT ADILELSTLIV
9679	40047	A	9739	1	506	MVIVGLAAGVLLVGP GDGGLIS EGVVREDLMCGVWSAGTWSV GTAERCLEKPGALHVIEGPLDS WDGPVMPNGPVKNHKGEEQE VPSKHPQMALEICLCLDFLYY/L IPEGRCFCRACDLVHNFDTIILQ QHRTLTSQGVDDFLKAKATFK ASDFIDALVLSKVASPGS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9680	40048	A	9740	1	380	KFSRPSVNMLRIVKPCITRG/YP NLKSVNKLIIYKHGRGKINKKRI ALTDNTLIDQSHGQYGIICIEDLI HELY\LWPFKLSSPQSGMKKKKT THFVENGAANREGQIHRLLIR MNCGVYRDYFSNLVS
9681	40049	A	9741	3	279	
9682	40050	B	9742	23	197	
9683	40051	A	9743	2	402	CGDRGALRPPSCAGRSGPGPPR PPRPPRPLPWHAPPAHGA PLARPGARARRSEKPPSEK PRLRRSSPRAQEEGPGEPPPELALL PPPPPPPTPA\PRRPRRP PGPGRAAGALGDVPEAAEAYLER VPPSSC
9684	40052	A	9744	1	660	
9685	40053	A	9745	1	1035	
9686	40054	A	9746	1	2575	MRAAGGAMLCGKQGRWDPEG EGAHPGFIPKLACSSQGVFRQL HLRTAVTAAVSRHFPQPSWRY DPGPQFLGEKSGFKPRCPGVAV CQFQSMNAFIHWFRNKA WASS CDRIKIPVPPEATFVEPNCLPGEI GQLLRQLQSGRNLKEWLREQF CDHPLEHCEDTRLHDAA YVGD LQTLRSLLQEESYRSRINEKSV WCCGWL PCTPLRIAATAGHGS CVDFLIRKGAEVDLVDVKGQT ALYVAVVNGHLESTQILLEAGA DPNGSRHHRSTPVYHASRVGR ADILKALIRPAACDRSVSITADT HFRYLIKVVPAMFRSRKAIPFLS SCTAWRCADQLQFIQPVPLVDT SGSGKTVSNVITESHNSDNEED DQFVVEAAPQLSEMSEIEMVTA VELEEEEEKHGGLVKKILETKKD YEKLQQSPKPGEKPSATGWHG ECLGTRNRAQGALVGWGWLY SERHSGMLRAITLKYKGGGRQ GIQA/AWKSETFRSRAAPENPL GRWGFALLSKIIS*RQVLAKLHF SLSPQARVNSRFPGSGKAGLGL WMEGARPSGHVPKERVVAGK RPQVPTKAHHTCVRETAGNQE GNEGALQQEQRLGVAEAGSN GEGALQQEHRITDCAVEPLKAE LAELEQLIKDQQDKICAVKANI LKNEEKIQKMERSLFESAWKKE KDIVSKEIEKLRTSIQTLCKSAL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9687	40055	A	9747	2	1739	MKGLYTDAEMKSDNVKDKDA KISFLQKAIDVVVMVSGEPLLA KPARIVAGHEPERTNELLQIIGK CCLNKLSSDDAVRRVLAGEKG EVKGRASLTSRSQELDNKNVRE EESRVHKNTEDRGDAEIKERST SRDRKQKEELKEDRKPREKDK DKEKAKENGGNRHREGERERA KARARPDNERQKDRGNRERDR DSERKKETERKSEGGKEKERLR DRDRERDRDKGKDRDRRRRVKN GEHSWDL DREKNREHDKPEKK SASSGEMSKKLS DGT FKDSKAE TETEISTRASKSLTTKTSKRRSK NSVEGDSTSDAEGDAGPAGQD KSE\VPETPEIPNELSSNIRRI PRP GSARPAPPRVKRQDSMEALQM DRSGSGKTVSNVITESHNSDNE EDDQFVVEAAPQLSEMSEIEMV TAVELEEEEEKHGGVLVKKILETK KDYEKLQQSPKPGEKERSLFES AWKKEKDIVSKEIEKLRTSIQTL CKSALPLGKIMDYIQEDVDAM QNELQM\YHSENQHAELQQ EQRITDCAVEPLKAELAELEQ LIKD\Q\QDKICAVKANILKNEE KIQKMVYSINLTSTR
9688	40056	A	9748	93	800	RANLPTQPYCHCGLAPAALTRI VGGSAAGRGEPWPQVDLWLR RREHRCGAVLVAERWLLSAAH CFDVYGDPA/QWAAFLGT/HVP ERRGGAVERVARIYKHPFYNL YT/FDYDVALLELAGPVRRT/SL VRPICLPEPA/HATPDGTRCVIT GWG/YGS/TGAQLQKAAVRLLS EQTCRA/LYPVQISSRMLCAG/ LQGGVDSCSGDAGGPLACREPS GAPVPGQPRCTAPARWPRRSA LSPAPL
9689	40057	A	9749	107	378	NLVP*LRSGD/SPLGDQSPVLLIF TP*ERSTYNLKSSD*PAQETS/PP ISNPDPTE/PDCSTHLAATPRA PGTLAQGSLTDSFPDLLSLAAE D
9690	40058	A	9750	2	286	

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9691	40059	A	9751	215	631	GTQSCNQKVLNSANNLQELGIG PKFQMRLKPQLAPMQPNRGTS LGRSIPCPPVLCSMRKIHLRPQV LRPTSPRNISPILNRVSEVSDHA GTPALVLHP*RQVPLFWGRGK YPNPFSLCLYPFSAFLGGKKHP TPSPSP
9692	40060	B	9752	1	933	
9693	40061	A	9753	1	2283	MLPNRLGSSETITDAELRVTLT VEELNGLRAVQDMFVKQILKA ARSLRVITIPNLKYPGTQTLRKA AAPDPNTTGLIFLEKLCEIAAAI ASYVAVPSLEINHRKKANPNLL LRRSGSGSVSLQLLAEKIWEGV REPWARVLVLWEWLPDQNPPLS GLTKSNSTSRHELPHGRAIQLH LSGWELWSEPSNLLDLVVTGDI ENTSLAPEDPTFLTMPSGSHCPE SPSDGPGGLSSLVALVWFLVED WLSRKRLSEPAELPLGKAGEV VFDTLPLPSRRTHFSGFLGHFCY SFSDDGYSTNRAAPDGSSTKAEK HGSCRKQPPYTLQCRDKAGLR VHGNSPVSAYGWLFSEERPGKP TRTPFSWEGDPPGLLTADETSL VVHLELPVFPSFLKRAGNSRHS GMGSPLEAEEAYSTVVMADV QYPVNEPLVAAVVCQEPERAQ PDVHFFQ/CLRLGGHAGGVAAR PLPAAETPPLQRRPSVRA*SAP* SGARAADDPRTTHS\QAEAAQR PEPDILNHVFDDVESF/VSRLQK SAEAARVLEHR/KRGRRSRRRA AGEGLLTLR/AKPPSEAEYTDV LQKIK/HAFSLLARLRGNIADPS/ SSELLHFLFGPLQMIV/QPSGGP EFASSVRRPHLT/RDAVALLRD NVTPRE/RLWTSLGDSWTRPG LELSPEEGPPY/IPEFFSGWEPPV TDPQSAPGRTQLRNSYSTSGGA
9694	40062	B	9754	1	930	
9695	40063	A	9755	76	247	QLKTDTAQLPRKLFVESHNYH CSWPGLQSGLPHTSGYHTSSS* LYLSDPADIHPIPS
9696	40064	C	9756	95	301	
9697	40065	A	9757	352	545	DILNHVFDDVESFVSRLQKSAE RPGCWRRTTRPQKPAPGVAG* RGTWRGI*TPPDFQMSPLSP
9698	40066	B	9758	406	602	
9699	40067	A	9759	1	543	

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9700	40068	A	9760	2	138	LDDFVGRMLTLMGCPPEC/PR VPSPLREGRKTQAALSVRRGRS HRR
9701	40069	A	9761	1	417	
9702	40070	A	9762	830	1029	YLPHLRLRLPCPPPLPLSKPNS LP*LRPSLLQRDYLSIFILINMP SISSTTMLLYGQKEISLH
9703	40071	B	9763	40	980	
9704	40072	C	9764	419	700	
9705	40073	A	9765	271	1185	
9706	40074	A	9766	2	1655	RGRRSRRRAAGEGLTLRAKPP SEAETYDVLQKIKYAFSLLARL RGNIADPSSPELLHFLFGPLQMI VNTSGGPEFASSVRRPLVTSD\ AVALL\GNNVTPRENELWTSLG DSWTR/LRA/EELSPEEGPPYRP EFFSGWEPPVTDPOQRAWEDPV EKQLQHERRRRQQSAPSGRCQ WVTGDLEPESEPOLESETAGK WVLCNYDFQA\RNSSEAVRSSS GDVL\EVL\DDSR\KWWKVRDP AGQEGYVPYNILTPYPGRLHH SQSPARSH\DSTPPPPAPAP/VP/ LPPALARPRWDRPRWDSCDSL NGLDPSEKEKFSQMLIVNEELQ ARLAQGRSGPSRAVPGPRAPEP QLSPGSDASEVRAWLQAKGFSS GTVDALGVLTGAQLFSLQKEEL RAVSPEGG\ARVYSPVTVQRSL LEDKRES\SELEAVMEKQKEEG GRRGGNGGHLTCQAPFAKSDE APWENGPPQTLNPSGSRSEGW PICSGPGLPPLPVDRNDPCCSP SGEDLDWLGVGRAWRQSTESA SRPPRGCSGALSIVILRSPINMP PCLAKKKKK
9707	40075	C	9767	565	762	
9708	40076	A	9768	1	401	SPLRPLLLALALASEPCAQGAC PASADLKHS DGTRTCAKLYDC SDPYYENCCGGAELSLESGADL PYLPSNWANTASSLVVAPRCEL TVWSRQKGKAGKTHKFSAGTYP RLEEYRRGILGDWSNAISALYC RCS

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9709	40077	A	9769	1	1489	MPQLLQNINGIIEAFRRYARTEG NCTALTRGELKRLLEQEFADVI VKPHDPATVDEVLRLLDEDHT GTVEFKEFLVLVFKVAQACFKT LSESAEGACGSQESGSLHSGAS QELGEGQSRSGTEVGRAGKGQH YEGSSHRQSQQGSRGQNRPGV QTQGQATGSAWVSSYDRQAES QSQERISPQIQLSGQTEQTQKAG EGKRNQTTEMRPERQPQTREQ DRAHQTGETVTGSGTQTQAGA TQTVEQDSSHQTGRTSKQTQEA TNDQNRGTETHGQGRSQTSA VTGGHAQIQAGTHTQTPTQTVE QDSSHQTGSTSTQTQESTNGQN RGTEIHGQGRSQTSAVTGGHT QIQAGSHTETVEQDRSQTVSHG GAREQGQTQTQPGSGQRWMQ VSNPEAGETVPGGQAQTGASTE SGRQEWSSTHPRRCVTEGQGD RQPTVVGEEWVDDHSRETVILR LDQGNLHTSVSSAQGDAAQS EEKRGITARELYSYLRSTKP
9710	40078	A	9770	2	3031	
9711	40079	A	9771	6288	6584	TAVSLPAPLFSDLQIPPRKRSRK ETVMAPELNTN*RAPPQSSARV FQ*EALYVPGP*ALDPPEVCSSY SSVCGLHQLSHSSSESSSTLGSL LGSFQML
9712	40080	A	9772	884	1032	ESRPNTTTLRLKTSSWSFQS*TA TQTKGPRDPGASMTKPGATSER SASG

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9713	40081	A	9773	1	1457	RSAQKEKTAAKEQQGEKTEVL SSDDDDAPDSPVILEIPSLPPSTPP STPTYKKSRLSSDQIRRLNLQE GANDVVFSVTTQYQGTCRCKA TIYLWKWDDKVVISDIDGTITK SDALGHILPQLGKDWTHQGITS LYHKIQLGQLVMPLDARPERP MDGMKVRAFMERLLFVRRGT DKRWSVRMYVTCSQSSNLNEE IYINQVVIQANMKLQLWAMRT DDARGLSSLGDTSPSPCVVP GLQPKPAPVCAGDALLQAQIPG VLLGTLFSGAAFYSGLYGGSEQ FLDHLLHPARAAPPPLVGP GP APRVPGSPSAPELAGPAVWRFA AAASRGVVVAASGWGRGGEA SQTFTGKEPGGTRHPTRMPLG STGCIFPGTLEKSQGYERYNAM RADPALCFLEKVGMPDEKSLSA EQGVTDGTSDIPERARQNEEQ TSFGLLWPTPQGSTDHIDNHPR ERYPEMRWELDVPLPIDYMEI PVDWWDA
9714	40082	A	9774	3	4804	KRLENIQKTLEVAFSEAVWMQ PSVLLDDLDLIAGLPAVPEHE HSPDAVQSQR LAHALNDMIKE FISMGSLVALIATSQSQSLHPL LVSAQGVHIFQCVQHIQPPNQE QRCEILCNVIKNKLD CDINKFT DLDLQHVAKETGGFVARDFTV LVDRAIHSRLSRQSISTREKLVL TTLDFQKALRGFLPASLRVNL HKPRDLGWDKIGGLHEVRQIL MDTIQLPAKYPELFANLPIRQRT GILLYGPPGTGKTL
9715	40083	A	9775	1	897	
9716	40084	A	9776	486	800	CLQLSWLSLGQAQVHWLGRA VHTAF CMD*VLLFGESFGFLVR LTPGILLGLL*P*KQGHCHSVSL GEVRI/CGIIS*TFITSWAFSVLQ GKASAPVKVSTQNSRY
9717	40085	C	9777	332	497	

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9718	40086	A	9778	1	6504	MWGS DRLAGAGGGGA AVTVA FTNARD CFLHLP RRLVAQLHLL QNQAIEVVWSHQPAFLSWVEG RHFSDQGENVAEINRQVGQKL GLSNGGQELHAVSLEQHLLDQI RIVFPKAI FVPVWVDQQT YIFIQI VALIPAASYGRLETDTKLLIQPK TRRAKENTFSKADA EYKKLHS YGRDQKGMMKELQTKQLQSN TVGITESNENESEIPVDSSSVAS LWTMIGSIFSFQSEKKQETSWG LTEINAFKNMQSKVVPL
9719	40087	A	9779	1	5421	
9720	40088	B	9780	124	273	
9721	40089	A	9781	84	493	IHANNC S*L*KAALNFVLLLLQ KRL*GEKHLTLSETGREGNKVG GVGS*VTGTGQETELGSLGRCH SPLSVLHLLPFFS/ILLGRTHLNA LLIRDYFASSCKYL*EVLLSLSD GSG*NLMSVWMAGNSSAEYVR
9722	40090	A	9782	1	5954	MDGMTEACIKGGIEACYAAVS CVCTLLGALDELSQGKGLSEGQ VQLLLLRLEELKDGA EWSRDS MEINEADFRWQRRVLSSEHTP WESGNERSLDISISVTTDTGQTT LEGELGQTPPEDHSGNHKNSLK SPA IPEGKETLSKVLETEAVDQP DVVQRSHTVPYPDITNFLSVDC RTRSYGSRYS ESNFSVDDQDLS RTEF\DSCDQYSMAAEKDSGRS DVSDIGSDNCSLADEEQTPRDC LGHRSLRTAALS
9723	40091	A	9783	1	2217	
9724	40092	A	9784	1	1360	
9725	40093	A	9785	1	777	MNIKNPIAAQHLDNLPIVKASSI GMTWGLVRNGVSAPTQKSCIRI HILARCTGAVAFEKLYFKSPAN QAHARKVGKQVQDCYIGRDIV AKAGAIH LNVGKGTPVCCPLL EEGINSEVWTTEGQYGRAKINA RPVQVKLKDSTSFYQRYPLR PKA/LTKGFQKIVKDLKAQGLV KPCSNPCSTPILGVQKPNRQWRI EALKLQIVLQMEPQM QSMTKI YHGPLGRPASPCSDVNDIEGNP TKEISTAPLLCPNSAGSS
9726	40094	A	9786	1	415	

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9727	40095	A	9787	1	451	MVHFISRLLYSDGLDVPDPIQ DSDDAALSVSPHCSPDSRVSTT KHLWVSPRLLRVAVRVKNIDIT NFSSSWNDGLAFCALLHTYLP AHIPYQELNSQDKRRNFMLAFQ AAESVGIKSTLDINEMVRTERP DWQNVMLFVIAIYKYFET
9728	40096	A	9788	3	605	DEWPPERIIQYNEPTTWH/EDGL WGYRTRFYMINQIHW/LQAILEII TNKTDRALTILAQQETQMRNAI NQNRALDYLPAEAGGICGKF NLTNCCLVHDDQGGVVEDIVR DMIKLSHVPMQVWHGFDPGA MFGKWFPVLGGFKTLIIGVILVI GTCLLLPCLLPVLLQMIKSFIAT LVHQNASEQLYYMNHYSVLQ EYMGS
9729	40097	A	9789	3	876	GAGGGFGSPMDIFDMFFCGGG RMHRERRGKNVVHQLSVTLED LYNSATRKALQKNAICDKCE DRGGKKGVEYCPNCRGTGM QIRIHQIGPGKVQQIQSVCECQ GHGEQISPKDRCESCNGRKILR EKKILEFHIDKGMKYGQKITFH GEGYQEPGLEGEDIIIVLDQKD DAVFTRQGEDLFMCQIVKHGDI KCVINEGMPYPRPYEKGRLLIE FKVNLPENDFLSPDKLSLLEKL LPKRKEVEETDEMDQVELVDF DPNQERWHHYNGEAYEDDEH
9730	40098	A	9790	199	410	
9731	40099	A	9791	134	1369	KMVKETTYDVLGVKPNATQE ELKKAYRKLALKYHPDKNPN EGEKFKQISQAYEVLSDAKKRE LYDKGGEQAIKEGGAGGGFGS PMDI\FDMFFGGGGRMQRERRG KNVVHQLSVTLEDLYNGATRK LALQKNVICDKCEGR/SGRFKE QGAVRSACPNCRGTMQIRIHQ IGPGMVQQIQSVCECQGHGE RIRPKDRCKSCNGRKIVREKKIL EVHIDKGMKDGQKITFHGED QEPGLEPGDIIIVLDQKDHAVFT RRGEDLFMCMDIQLVEALCGF QKPISTLDNRTI\VITSHPG\QIVK HGDIKCVLNEGMPYRRPYEK GRLIIIEFKVNFENGFLSPDKLS LLEKLLPERKEVEETDEMDQV EL\VDVDPNQERRRHYNGEAY EDDEHHPRGGVQCSDLLMGPV

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9732	40100	A	9792	3	337	GYSQAPRKR/GGECSSLSQPFSAQPDAAASLEPPSLETAPAGRTPATLTQGSPPAAVREPLSPGHNAKARLRSRPARPPWIPDPDPPGHFVTDFCAPESLQGETRTRSFSQLL
9733	40101	A	9793	1	346	SGS*QLQMCSGLPAHTQDETHISSCGQLDLALPPLLPLPPSPLNLTLPQGLCTC
9734	40102	A	9794	1	1110	MEGEEAAGAAGPDPVGHRRKCGFHPVCEREAPSTFAAVMIHLVVQYIGEICRYLLKQPVREAERRHRVRLAVGNGLRPAIWEEFTERFGVRQIGEFYGATECNCSIANMDGKVGSCGFNSRILPHVYPIRLVKVNEDTMELLRDAQGLCIPCQAGEPGLLVGQINQQDPLRRFVNGYVSESATSTKIAHSVFSKGD SAYLSRDALMMDELGYMYRDRSGDTRWRGENVSTTDVEGELSRLLGQTDVAVYGVAVPGKLGLQGVVLRHGVGKAGMAAVADPHSLDPNAIYQELQKVLA PYARPIFLRLLPQVDTTGTFKIQKTRLQREGFDPRQTSDRLFFLDLKQGHYLPPLNEAVYTRICSGAF
9735	40103	B	9795	28	376	
9736	40104	A	9796	3	461	VRQCRGIRDPIYRFFKRTELFIA AEGIHGTGFVYCGKKAQLNIGNVLPVGTMPGTTIVCCLEEKPGDRGKLARASGNATVISHNPETK KTRVKLPSGSKKVISSANRAVVG/VVSGSS*MLRAVGEHAVSAGGQPVARLGPWNSITCCSKTWV
9737	40105	A	9797	1	701	MQEVPGMFERNYPHPAITFKPSVPVSRSLDYAPLPGGVFRDPYWFKKRTelfIAAEGIHGTGFVYCGKKAQLNIGSVLPVGTMPGMI VCCLEEKPGGRSKLSWASGNYATAISHNPETKKTRVKLPSGSKKVVSSANRAVVGVVAGGGRTDKPILKACQAYHKYKAKRNW WPRVWDVAMNPMEHPFGGNGHQHIGIPSAI/SRDDPAGCKMGLIAARQTGRLWGTKTVQEKEN

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9738	40106	A	9798	1	910	QCGGIRRTGPVAMGRVIRGQR KGAFSVFRAHVKHRRGAARLR AVDFAERHGYIKGIVK/DAERW PGREGKGRPAGTPHSRRLCPQD IIHDRGRIGAPLA\RVVFRDPYRF KKRTELFVIAAEG\IHTGQFVYC GKK\AQ\LNIGNVLPVGTMP*\G TIVCCLEEKPGD\RGK\LARASG NYATVIS\HNPETKK\RVKLPS GSKKVISSANRAVVGVVAGG\G \RIDKPIFEGWPGRYHKKYAKR NC*PRIRGV\AMNPVEHPFGGG NHQHIGK\PTI\RRDAP\AGRKV GLIA\ARRTGRLRGTKTVQEKE
9739	40107	A	9799	1	405	LEISIMAASISGYTFSVCFHSA NSNADHEGFLLGEVRQEETFSSIS DSQISNTEFLQVI\KVIGWYRFR RNTQQQMSYREQVLHKQLTRI LGVPDLVFLFSFISTANNSTHA LEYVLF\RPNNRRYNQRISLAIPN
9740	40108	A	9800	1	232	
9741	40109	A	9801	1	420	
9742	40110	A	9802	3	1272	EISIMAASISGYTFSVCFHSAN SNADHEGFLLGEVRQEETFSSISD SQISNTEFLQVIEIHNHQPCSKL FSFYDYASKVNEESLDRILKDR RKKVIG\WYRFR\NTQQQMSY K\EQVLHKQL\TRILGVPDLVFL LFSFISTANNSTHALEYVLF\RPN RRYNQRISLAIPNLGNTSQQEY KVSSVPNTS\QSYAKVIKEHGTD FFDKDGV\MKDIRAIYQVYNAL QEKVQAVCADVEKSERVVESC QAEV\NKLRRQITQRKNEKEQE RRLQQAVLSRQMPSESLDPAFS PRMPSSGFAAEGRSTLGDAEAS DPPPPYSDFHPNNQESTLSHSR M\ERSVFM\PRPQAVG\SSNYAS TSAGFEVFLGSGADLPPQRAA GDSGEDSDSDYENLIDPTEPS NSEYSHSKDSRPM\HPDEDPRN
9743	40111	A	9803	3	513	GAYGGGYGACDNYNGYGYGF GSDRFGRDLNYCFSGMSDHKY GDGGSTFQSTTGHCIYVHIEIGP DGRVTGEADVEFATHEDAVAA MSKDKANMQHSYVEPFLNCAA GASGTAYGSQMMGGMGLSIQS SYGGPASPQLSGGYGGGYGGH SSMSGFDQVLQENSCDFQSDIA
9744	40112	B	9804	73	1127	

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9745	40113	A	9805	1	3647	MRVRHVGQAALLLTSVRESR ATSAFQVSPYEDEPCRPCNCDP VGSLSVCIKDDDLHSDLHNGKQ PGQCPCKEGYTGEKCDRCQLG YKDYPTCVSCGCNPVGSASDEP CTGPCVCKENVEGKACDRCKP GFYNLKEKNPRGCSECFCFGVS DVCSSLSWPVGQVNSMSGWL TDLISPRKIPSQQDALGGRHQVS INNTAVMQRLAPKYYWAAPEA YLGNKLTAFGGFLKYTVSYDIP VETVDSNLM SHADVIIK
9746	40114	B	9806	141	236	
9747	40115	B	9807	66	266	
9748	40116	A	9808	1	330	
9749	40117	A	9809	1	792	
9750	40118	A	9810	129	311	
9751	40119	A	9811	3	538	
9752	40120	B	9812	96	536	
9753	40121	A	9813	1	2090	MSSNQKSPTKTSKSPGTANVLD VNNSTLMFVGGLGGQIKKSPA VKVTHFKGCLGEAFLNGK SIGL WNYIEREGKCRGCFGSSQNE DP SFHFDGSGYSVVEKSLPATVTQ IIMLFNTFSPNGLLALYLG SYGT KDFLSIELFRGRVKVMTDLGSG PITLLTDRRYNNGTWYKIAFQR NRKQGVLAVIDAYNTSNKETK QGETPGASSDLNRLDKDPIYVG GLPRSRVVRRGVTTKSFVGC IK NLEISRSTFDLLRNSYGV RKGC LLEPIRSVSFLKGGYIELPPK SLS PESEWLVTATTNSSGII LAALG GDVEKRGDREEAHVPFFSV MLI GGNIEVHVNPGDGTGLRK ALL HAPTGTCSDGQAHSISLVR NRR IITVQLDENNPVEMKLGA LVES RTINVS NLYVGGIPEGE GTSLLT MRRSFHGC IKNLIFNLDH GFVD SVEQKRFCGVPSCA RESARGRA QAQDTAQELQSESACD KRSPQP PGKGKHM YGGV LQPQ SLFQKN LLLFYDEVLDLQPN GKEKEFSV GANHNAFMVVHWGVC GFCLF PSGEWLASPCVHPQIT IHPPDR FQASVTDEGYLFLAKPT QPAPA CPLDPIRPLLLGHAQ QPLT TDQ HTDAAVTPSSAVTARA ANYCA GGRNERKKTGREKR HLTGGPC VALRTFTVLHIS SHHQVDGIRA GYVQRDGLQPTNRQIVM

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9754	40122	A	9814	1	8705	MRGGVLLVLLLCVAAQCRQRG LFPAILNLASNAHISTNATCGEK GPEMFCKLVEHVPGRPVARNPQ CRICDGNSANPRERHPISHAIDG TNNWWQSPSIQNGREYHWVTI TLDLRQVFQVAYVIIKAANAPR PGNWILERSLDGTTTFSPWQYYA VSDSECLSRYNITPRRGPPTYRA DDEVICTSYYSRLVPLEHGEIHT SLINGRPSADDLSPKLLEFTSAR YIRLRFERJRTL NADLMTLSHRE PKELDPMLPR
9755	40123	A	9815	1	564	MGDLEDKLVPFIGELPRHLDQN SEQLKQVVQRELKELHETCQQ HQLCQASTSGEPKERDKEEGK DSKPRSLRFTWSMKTSSMDPN DMMREIRKVLDANNCDEYQKE RLLFCVHGDARQDS/LPCQWG DGKSCQVGPRLS\LNGV\RFKRI S\GTSYCPLKNIA\SKIA\NELKP VKKSQIYQVQGRYIHI
9756	40124	A	9816	2	451	ANAHGFIMELQDGYSTETGEK GAQLSGGQKQRVAMARALVR NPPVLILDEATSALDAESEYLIQ QAIHGNNL\QKHTVLIH ARLSTV EHAHLIVVLDKGRVVQQGTHQ QLACPRAGFYGKLVQRQMLGL QPAADFTAGHNEPVANGSHKA
9757	40125	A	9817	1	498	MVKY/YLGQGVLRSSW/DQVV PA/FWQRYRNPVQRYLTEDIVH RENQMTTFTWNINHARPMVV EERCVCVNSDNSGWTEIRREA WVSSSLCGVSRVWVWFGLAQF KSNVTKTLKGFYILAKLQGEA ASKTLIKTAREAKEKAKETALA ATEKAKDLASKAATKKQQQ
9758	40126	A	9818	3	231	
9759	40127	B	9820	94	375	
9760	40128	A	9821	45	439	

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9761	40129	A	9822	304	1557	DRQNVMEQFNPGLRNLI ^N LGK NYEKAVNAMILAGKAYYDGV AKIGEIATGSPVST ^N ELGHV ^L IEI SSTHKKLQRESLMEN ^F KKFHK EIIHELEKKI ^E L ^N DVKYMNATLK RYQTEHKNKLESLEKSQAELK KIRRK ^S QGS ^R NAL ^K YEHKEIEY VETVTSRQSE ^N QKSIADGCKEA LLERERGASCF ^P GLNKHCGFA/ NTHIHYYHLQSAELL ^N S ^N KLPR WQETCVD ^A IKV ^P \EKIMNMIEEI KTPASTPVSGTPQASPMIERSNV VRKDYDTLSKCSPKMPPAPSGR AYTSPLIDMFNNPATAAPNSQR VNNSTGTSEDPSLQRSVSVATG LNMMKKQKVKTIFPHTAGSNK TLLSFAQGDVITLLIPEEKDGWL YGEHDVSKARGWFPSSYTKLL EENETEAVTVPTPSPTPVRSFSG
9762	40130	B	9823	1	1128	
9763	40131	A	9824	1	434	
9764	40132	A	9825	92	319	SIPPYP ^I PPP ^V DRKEID*LEGMQT SGLFQQTSG*EEGVGSIMASGR PPHPEPLKADFICKREVR ^L AFSI ACIWMR
9765	40133	A	9826	1	851	
9766	40134	A	9827	227	305	LVIFSIFNLVG*NISDCIILICQLK
9767	40135	A	9828	66	808	YCWQSQGA ^K PRDLLGPD ^L LIPLN HSPRVSHLLCHRH ^I RKAGGVFV ADEIQVGFG ^R VGKHF ^W AFQLQ GKDFVPD ^I VTMGK ^S IGNGHPVA CVAATQPVARAFEATGVEYFN TFGG ^S PVSCAVGLAV ^L NVLEK EQLQDHATSVGSFLMQLLGQQ KIKHP ^I VG ^D VRGVGLFIGVDLIK DEATRTP ^E LKR ^H VYLVSR ^L KE NYVLLSTDGPGRN ^L KFKPPMC FSLDNARQVVA ^K LDAILTDME EKVRSCENR
9768	40136	A	9829	3	597	

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9769	40137	A	9830	1	3281	MGFHHVQGAGLKLLTSGTPQL LALVQHWVPGARLVEELPHEL VLVLPYTGADGFSATLRFELD TRLAELRLTGYGISDTSLEEIFL KVVEECAADTDMEDG/TLRAA PMHRHCWPRRNPTAQDAATGD SAG\DGEPAGSAPETDQGSQPD AVGRVQGWALTRQQLQALLL KRFLARRSRGLFAQIVLPALF VGLALVFSLIVPPFGHYPALRLS PTMYGAQVSFFSEDAPGDPGR ARLLEALLQEAGLEEPP
9770	40138	A	9831	1	684	RTRGPPQSRSGRRRIPLYLP TSCIKELVAGGVAVESWPGRD AAQLLLCSCLLSPPVMTETRE PAETGGYASLEEDDEDLSPGPE HSSDSEYTLSEPDSEEEEEDEEEE EEETDDPEYDPGYKVK*RLGG GRGGPSRRAPRAAQPPAQPCQ LCGRSPLGEAPPGTPTCTGTSCC MPGVRCRQSPHTGSLAEGVGW EEGAEIGVTVVMGDGVLPV CVVLEVDV
9771	40139	A	9832	1	670	MESDIGRKGKGDPEAGPEHSSD SEYTLSEPDSEEEEEDEEEEEET TDDPEYDPGYKVKQRLGGGRG GPSRRAPRAAQPPAQPCQLCGR SPLGEAPPGTTPCRLCCPATAPQ EAPAPEGRALGEEEEPPRAGE GRPAGREKEEEEEEGTYHCTE CEDSFDNLGEL\TGTSCCMPGV RCRQSPHTGSLAEGVGWEEGA EEIGVTVVMGDGVLPVCVVL
9772	40140	A	9833	3	512	
9773	40141	A	9834	3	815	MLYSRGPQPMGHGPVLVCGLL GTGCTAGAQLREAYTSISSQID QAEERISEIEDKLNEIKREDKITE KRMKRNEQSLQEIWDYVKRPN LRLIGVPKSDVENGTLENTLQ DIIQENFPNLARQANVQIQEIQR TPQRYSSRRATPRHIIVRFTKVE MREK\MLRAAREKGRVTHKGK PVRLTADLSAETVQARREWGPI FNILKGKNFQPRISYPAKLSFISE GEIKYFTDKQMLKDFVTT/RPA LKELLKEALNMERNNWWYQPLQ KHAKL

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9774	40142	A	9835	1	561	MVNGRIPQAPSQFSHLARLHPA PSPNSDPSPFLAELLMPVIGL TPSYPSRFSSESTFLQEAFDLC QAEDPVYANGGLNYSYRGYGA LSSNLQPPASLQTGNHSNGPTD LASMKGGAFTTSTTPTPTPSSTST SRPVPTAQLSPTEISAVRQLIAG YRESAAFLRSADLENLILQQ NRPRRHL
9775	40143	A	9836	2	226	KGVQFQFSSYG*PVFPTPFIK*G VLSPLFVFLRFLKDQMVVDV*H YF*GLCSVPLVYISVLVLPCCF FFTVAL
9776	40144	A	9837	2	350	YKVSKPKAQLCSQQVKYLWLK LSKGTRALSEERJQPILAYPHPK TLKQLRGILGITGFCRIWIPAR*S SPTGQE/FSLYVTEETGIALGILT QVQGTSLQPMEYLNKEIDELDQ GRTH
9777	40145	C	9838	213	365	
9778	40146	A	9839	1	1923	

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9779	40147	A	9840	1	2091	MVLVVVAVVVVVLVVAIVV VVVVVAAVVVGAVVVVVVV MVVVVVVVVVEEDNQHKTGA INNNNTAKNPQQSPFHSPATST GAEATQMRRNQKTNPHNMTK QVSLTPPKITLAHQQWIQTKKK YLIYLKKHSGVKNIPRNPTYEG CEGPFQGELQTTAQQNKGGHK QTEDHSMLMDRKNQYCENGH TAQAVPNPYTLLSQIPEDAEOF TVLDPKHAVFCIPVHPDSQFLF AFEDPSNPMSQLIWTVLPQGFR NSPHLFGQALAQDLSQFSYLDT LVLRYMDDLLLATHSETLCHQ ATQALLNFLATCGYKVSKPKA QLCSQQVKYLGLKLSKGTRTLS EERIQPILGYPHPKTLKQLTAFL GITGFCQIWIPRYSKIARPLNTRI KETQKANTHLVRWTPEAEVAF QALKKALTHAPVLSLPVGQNFS LYVTEKVTGIALGVLT/PGTSAQ LAELIALTRAPELGEGKRVNIY ANSIGREREFLTSKGTLVKHQE AIKRLLLAVQKPKEVAVLHCW GHQKGKEREIEENRQADIEARR AARQDPPEMLTEGPLAFELA MATARAELSLAIHHCCLP PPPQ TRCWLP SLRIRQGVCCIPDPAR AITLTAWPKIPFLGIRKAKNPQV REHEACHHLGSGLPFFWKWPT TILGALGARTPGNTGSTYTFIGY TYTSPVIFILSWQYVVFHGLYY
9780	40148	A	9841	1	1284	

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9781	40149	A	9842	1	1522	MVAPGSVTSRLGVSFPFLLVLV DLQYEGAECGVNADVEKHLEL GKKLLAAGQLADALSQFHAAV DGDPDNYIAYYRRATVFLAMG KSKAALPDLTKVIQLKMDFTA ARLQRGHLKKQGKLDEAEDD FKKVLKSNPSENEEKEAQSQI KSDEMQRRLRSQALNAFGSGDY TAAIAFLDKILEVCVWDAELRE LRAECFIKEGEPRKAISDLKAAS KLKNDNTEAFYKISTLYYQLGD HDCSFSEFRDVLNLDQDHKRC FAHYKQVKLNKLIESAEELIR DGRYTDATSKYESVMKTEPSIA EYTVRSKERICHCFASKDEKIPV EAIIRVCSEVLQMEPDNVNALK DRAEAYLIEEMYDEAIQDYETA QEHNVENDQQIREGLEKAQRLLA KQSQRDYYKILGVKRNAKK QEIIKAYRKLALQWHPDNFQNE EEKKKAEEKFIDIAAAKEVLSD PEMRKKFDDGEDPLDAESQQG GGGNPFHRSWNSWQGFNPFSS GGPFRFKFHFN
9782	40150	A	9843	5	519	LTCQEEHKKKHDPDSSVNFVEFS KKCLERWKTTSAKEK/SKFEEK AKSDKARCDREIKNYIPKCKK GRPPSAFFLCSEHRPKIKSGHP GLFVVETAKKLGEMWSGQSAK DKQPYEQKAVKLQERYEKGIA AYRAKGKSEAGKKGSKKNKPE DEEEEEKEDEDEEEGEDEE
9783	40151	A	9844	1	3140	YSIATVLAEEKLDPRRDEAKR LRPQRNFNITFTHTGTVFRPLTLE STFFNSALLFTTIKQDLPLPKTI ITNAFHRFRNHHQTGFKLSAAN QRGPLAATLSGPGGEGQSAVA RLTGEKKNHPGAQYANRLSPR VGRFINAAGTTGFPTGKRARSD SSLAKENNQKAYKETYGVSHIT RHDMLQIPKQQQNEKYQVPQF DQSTIKNIESAKGLDVWDSWPL QNADGTVAEYNGYHVVFALA GSPKDADDTSIYMFY

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9784	40152	A	9845	2	604	FLELPAAAAAVLSASPGALER EARSPPRSPQTADTSPRPRAPAC APSRARAMPSDRPFKQRRSFAD RCKEVQQIR\DQHPSKIPV\IIR YKGEKQLPVLDKTKFLVPDHV NMSELVKIIRRRRLQLNPTQAFFL LVNQHSMVSVSTPIADIYEQEK DEDGFLYMVYASQETFGF*ASS PCLSAHLPLTHPRLCPPGPAHP
9785	40153	A	9846	3	303	RDQHPSKIPVIIERYKGEKQLPV LDKTKFLVPDHVNMSELVKIIR RRLQLNPTQAFFLLVNQHSMVS VSTPIADIYEQEK\DEDGFLY VYGLPGKPF
9786	40154	A	9847	254	2110	
9787	40155	A	9848	234	1904	
9788	40156	A	9849	5	189	
9789	40157	A	9850	1	1546	MASASSQPSLAVGFSSFDPGAP SCTASSASGILSPTASEVPYASG MPIKKTGHRGVDSSGETTYKKT TSTALKGAIQLGITYTVGSLSTK PERDVLMQDFYVVESIFFPSEGS NLTPAHHYNAFRFKTYAPVAF RYFRELFGIPPDDYLCSLCSEPLI ELCSSGASGSLFYVSSDDELIK TLQHKEAEFLQKLLPGYYLNLS QNPRTLLPKFFGLYCVQTGGKN IRIVVMNNLLPRSVKMHKYDL KGSTYKRRASQKEREKPLPTFK DLDFLQDIPDGLFLDADTYNAL CKTLQRDCLVLQSFKIMDYSL WLSIHNIDHAQREPLSSDTLQV SIDTQRLAPQKALYSTAMEFIQ GEARLGDTEADDHMGGIPAQ NSKGERLLLYIGIIDILQSYTFLK KLEHSWKAVVHDGDAVSVHR PGFYAERFQHFMCAVFKKIPL KPSPSKKFRSGLSFSLHTGSSGN SCITYQPLVSEEHKSQVIKVQVE PGVHLGRSDVLPQTSE\PPLEEIT

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9790	40158	A	9851	233	2051	AGPGAGSTCLREARRGRGGGP QNAGSVKRRWEDSIPRRGRTGL KESQAAEGEGAAMASASSGP SSSVGFSSFDPAVPSTLSSASGI KRPMASEVPYASGMPIKKIGHR SVDSSGETTYKKTSSALKGAI QLGITHTVGSLSTKPERDVLMQ DFYVVESIFFPSEGSNLTPAHHY NDFRFKTYAPVAFRYFRELFGI RPDDYLYSLCSEPLIELCSSGAS GSLFYVSSDEFIITVQHKEAE FLQKLLPGYYMNLNQNPRTLLP KFYGLYCVQAGGKNIRIVVMN NLLPRSVKMHKYDLKGSTYK RRASQKEREKPLPTFKDLDFLQ DIPDGLFLDADMYNALCKTLQ RDCLVLQSFKIMDYSLLSIHNI DHAQREPLSSETQYSVDTRRPA PQKALYSTAMESIQGEARRGG TMETDDHMGGIPARNKGERL LLYIGIIDILQSYRFVKKLEHSW KALVHDGDTVSVHRPGFYAER FQRFMCNTVFKKIPLKPSPSKKF RSGSSFRRAGSSGNSCITYQPS VSGEHKAQVTTKAEVEPGVHL GRPDVLPQTPPLEEISEGSPIDP SFSPLVGETLQMLTTSTTLEKLE
9791	40159	A	9852	30	298	EPFIFLFIYLFYLFETESRPVIQ AGVQWCNLSSLQPLPTGFKQFS VCLSPITSWDYRHPPPCPANFCS FSRDGVSPCWPGWSQTPDLR
9792	40160	A	9853	3	938	
9793	40161	A	9854	208	870	LGMAGRLFTVNLQSPLNPSTLL AEVCVEQCTLMDSKMKPLWIM YSNEEAGSGGRVSVSLKRDDD LWQDMLTMQTIRLMDVPDTIA NIQLNNRNMDGGNEEFTLSA GYCVATYVLGIGDRHSDNIMIR ASGQLFHIDFCHFRQRPFILTY DFVHVIEQGKTNN/SEKFERFRG YCERAYTILRRHGLLFLHLFAL MQAAGLPELSCSKDIRYLKDSL VHPL

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9794	40162	A	9855	1	790	VEELSKKLADSDQASKVQQQK LKVGQLGEWVWPLDKGGKLFS KLWGRGGLVYKWFLLIYKISY ATGIVGYMAVMFTLFGNLLF KIKPEDAMDFGISLLFYGLYYG VLERDFAEMCADYMASTIGFY SESGMPTKHLSDSVCAVCGQQI FVDVSEE/EDH*EHRCS/CFHEF CIRGWCIVGKKQTCPYCKEKV DLKRMFSNPYPLLGSLLGVGCG KKVLASVTCIWVLLGPSLLPPT RTCQTMNNKKIMKVMMRIKR MMTDTMAS
9795	40163	A	9856	1	1005	FRGRAVKMAAVVEVEVVGGA AGERELDEVMSDLSPEEQWR VEHARMHAKHRGHEAMHAEM VLILIALTVVAQLLLQWKQRH PRSYNMVTLFQMWWVPLYFTV KLHWWRFLVIWILFSAVTAFTV FRATRKPLVQTTPLRVYKWFLI IYKISYATGIVGYMAVMFTLFG LNLLFKIKPEDAMDFGISLLFYG LYYGVLERDFAEMCADYMAST IGFYSESGMPTKHLSDSVCAVC GQQIFVDVSEEGDHETTYRLSC NHVSHEFCIRGWCIVGKKQTC PYCKEKVDLKRMFSNPWERPHV MYGQLLDWLRYLVAWQPVIIG VVQGINYLGLE
9796	40164	A	9857	28	267	LNIGKGDSSKPRGKMSSYAFFV QTCREEHKKQHPDASVNFSEFS YKKDIAAY*AKGKPDAAKKGF KAEKSKKKKEEEED
9797	40165	A	9858	1	194	MGKGDPPKLRGKMSSYAFFVQ TCQEEHKKQQPDASVNFSEF/S KKCSERWKTMSAKEKSEDMA KL
9798	40166	A	9859	241	958	HQIFILFFRKITKHGQRRSLRSPR GKMSS\FAFFVQTCREEHKKRH PDASVNFSEFSKKC/SQRGWKT MS\SKEKGKF*RYGQKRD KAR YER\EMKTYYP\S\KGGDQKRSF KDPNAPQGGPPFGPSFLFCSEY RPKIKREDHPGLSIGDVAKKLG EMWELTLLQ/SDKQPYEKKAA KLKEYEKDIAAYRAKGKPD AKKGVVKAEEKSKKKKEEEED EDEEDEEEEEDEEDEDEEEDD

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9799	40167	A	9860	2536	2909	KSGVPGSRFSSSDKSDTGVTGL FSTYFLKSDFQLQLIDISASTAS KSLFSAVL FQEYILSFGLSEIISIL SSAVCWREAPKLSMVGCLAAG GKLTGC*AAGCLATDGR TETL DAAPAAAALSAV
9800	40168	A	9861	5	1752	KCTICLRNS/IAVCCGCGQGLSG YLN GEGADGAERGGGGSGVEE LRAPVCGQAASSLAASQLAAG GQAANHAQLRCLSPADCALML FIQVEVL TNSIAMVSVHLEKQP LKLVLGELGFRSPAGEEQATPV VGGEGLGCIEDSAAVAEGGIAI GGIVGINTALQEVLPHTIKMQ RNNAQLSRRKEPKEGLCGERG QDRMSRAKGSSSKGKELPPGCR RVTMKPLL VRETQEGQAAERG AEEQLQTLGPFAVYRDSPSKNF YKRDKMLKGLEEAKVNFVWR TNEGFLEEDAGQEFGIQKAVTP ALCPSRKA EVPLSCLTLKLS GKAKKAPYNTGPLGLLHLSMC SHSRKGFEQLWQLNSGKLLQG PRDSVEGSARRAETA VHCPAVL HFAPALLLAALRCQRDLESAAA PSHTRSCQHPRLLSGAVQTAGF SNPPKVVIQIKWNFLVMLLNFP GSTKLIARLKQQMNYKEMASQ RLTQSMLPHRSRLIGAGPCNRC VHPEPVIVTLFGQKV FARIKKN QTCLLCSQIWCAHYQQGWICA WLAGFGKIYIFSTIGVIDTLSSG HIHLQPNCTARDSASWESPA
9801	40169	A	9862	1	668	MWRLVIQDAKDENGVLVGNR VLAHSSLAVLSCLALNNRRISG WTP/CGPSGSPPGFMGRRGTST/ RLPTG**CPEGQPPRCPCG*ASG CASSPAECRMPATHLPNGSGRV PFPPGPVNYSPLRLQAPEQVTG S/SPWPFS/RPVLGPLPLEGSVPPP F/RLPPRPRPAGVAAGSSWGHS AASVRRSPGRRPEGESIHPRPPA SRLPWLRATREEEAGAPKLGED SYPNF

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9802	40170	A	9863	2	624	FMGRRGTSTPFPLADNAPRGSP PGAHVVGGWDPDLRRAPVTGF SCSGSCSQRGAADWESFPRSP CRASGCASSPAECRMPATHLPG NSGRVPFPFGPVNYSPLRLQAP EQVTGS/SPWPFS/RPVLGLPLE GS\PPPF/RLPPRPRPAGVAAGSS WGHSAASVRRSPGRRPEGESIH PRPPASRLPWL RATREEEAGAP KLGEDSYPNF
9803	40171	A	9864	51	225	
9804	40172	A	9865	1	276	AFAAIPTNTLLLEQKALDEPAE TESVSKDNTL*PPVETPTTLPR AGRETKYANLSSPTSTVSESQ/P D*AWSNSPSTCKIQNITEKRGG L
9805	40173	A	9866	3	441	QTNFKGCSKVTSSKLNMSLLW TPTGR*GCDRKVEQPPGDLGT AAVRPKSLAISSSLVS/ACSASK TQGTDLKTSSHPEMLHGMAPQ QKHGQQYKTKSSYKAFASIPYK HIAFGTEDS/STTLPRAGRETK YANLSSPTSTVSESQAD
9806	40174	A	9867	123	417	SLDLDLFTVSGLLSDSSGILTR NLEVSAN*VWVGSLLTVGTNV KIRGLASEPPAETVSFSSKFLFN KLLFSRFSSSILKENEKERKNER HRGSNSV
9807	40175	A	9868	153	1624	TTRRKS MNPTLSGKYLEDNSDL FSEQALDEPAKTESVSKDNTLE PPVELYFPAQLRQQTEELCATID KVLQDSL SMAPLSPTKQASSS LAYMNVERTPSPTLKSNTMLSL LQTSTSSSVGLPPVPPSSSLSLK SKQDGD LRGPENPRNIHTYPST LASSALSSLSPPINQRATFSSEK CFHPSPALSSLINRSKRASSQLS GQELNPSALPSLPVSSADFASLP NLRSSS/APSCQSAHPGAPAQSL SSAPT CGSGTLPSRLGKSESTTP NHRSPVSTPSLSISLTRTEELISP CALSMSTGPKNKKSKTPTTLPR AAGRETKYSKNDYLT LNAGS QQRDQAKLTCPEVSGTILQE REFEANKLQGMQQSDLFKA EY VLIVDSEGEDEAASRKVEQGGP GGIGTAAVRPKSLAISSSLVSDV VRPKTQGTDLKTSSHPEMLHG MAPQQKHGQASAYKGEESNEE DWTILKSSRMTNPRKLSDNKI
9808	40176	A	9869	1	762	

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9809	40177	A	9870	1	537	
9810	40178	A	9871	490	681	MGLVLLHVGKLGSSWLRNGSQ ETAGQIISPLSSWHDGTGAGAAL DFSPGLSCLPVR*GSRRAAPH
9811	40179	C	9872	258	527	
9812	40180	A	9873	1	2865	MLPAFEHQTPSSSAFGLLNQQ WVVRGSRAFGHRLKAALSGSL LLKFSDSDWLPCSSACRGPVIG LHLVIVYVKSHQNA YRHKN IQL KQTLSCNTTKVRSFIIEVSETR NPPAGTNSGHILGTCPGYRYAK GKETGKEIHKGPQNPPGYRLCPL QAVGGGEFGPTQVHVPFSLSDL KQIRVDLGKFSDDPDRQYPLRP EAHEGLQDILRYLKVQGLVRK CSSPCNTRILGVQKPKGQWRLV QDLRFINEAVIPL
9813	40181	A	9874	3	177	
9814	40182	A	9875	255	1299	AAVFPLWCWTRGKCHSLEWR PCTVCSPDSPPKVSAGQALCG SETLPLTQTPDIQVPATLES GHP ANLLVSAAWKSRKSLIFSWTW GTVISLGPRTPHFSEITIPLPWS HGSSITFQVTFPRFHVTTMTIQ LNVSSPVALENATSLSVLKNQS LRFVYVTDSPPARLSWTWEG QALNLSQSSSAVLELPPVESC DGGEFVCQAQHPLGSQHVSISL SVQSDSVISIEEGLVQLTGFTLIR GILMGTSCTFICGFTWICCTSPVI PKPGTQSCFSTRDSATLPDAG SPGPKRVWMCSESHQPLCAVP DEDEQELHYAVLHFHKVQPQE PKVTDTEYSEIKIHK
9815	40183	A	9876	27	385	ASTTTGSGTSTAAARCTAWSPG PLVTAVEKFEAEAAALGQRIST LQKGSPPDPLQVRMLNDQLMLL ERTFLNPRAFPEERYYSVHLWA /PSHGLRSHIPGLSNACSRARDT ASGSEAWAEG
9816	40184	A	9877	160	480	
9817	40185	A	9878	19	433	GLDHGWAGDRWRTRPVVGAG EGRAPRLNSPSGQIRSPGPGDLS IYDNWIRYFNRSSPVYGLVPAGF SSHQAVARTAGSVILRLSDSFFL PLKVSDYSETLRSFLQAAQQDL GALLEQHSISLGPLVTAVEKFE AKAAAL

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9818	40186	A	9879	1	996	MALSKERSTVTRTQWARKTML QGETIQISESVSTYLRPYSVSGT VLGTNMSKTSARIYPTYHTAFD TFDYVDKFLDPGFSSHQAVART AGSVILRLSDSFFLPLKVSDYSE TLRSFLQAAQQDLGALLEQHSI SLGPLVTA VEKFEAEAAALGQR ISTLQKGSPDHVLWA/PSHGLRS HIPG\LSNACSRARDTASGSEA WAEVQRQLSIVVTALEGSVEAL HEVLQLPAALRACPLRKALAV DAAFREGNAARLFRLQLTPYL PSCAVQCHVG HARREALARFA RAFSTPKGQTLPLGFMVNLLA WMDSGKHGTCARPTGCPWTER RELCS
9819	40187	A	9880	66	744	RAHEDRERSGVQIRTQSWNGG KREKDFLHQSG\ETLLMKGC WRKSKTSARIYPTYHTAFDTFD YVDKFLDPGFSSHQAVARTAG SVILRLSDSFFLPLKVSDYSETL RSFLQAAQQDLGALLEQHSISL GMHSPDPEVRMLNDQLMLLER TFLNPRAFPEERYYSHVLWA/PS HGLRSHIPG\LSNACSRARDTAS GSEAWAEVQRQLSIVVTALEG AAATLRPVADL

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9820	40188	A	9881	2	2241	PRVRRMQWTKVLGLGLGAAA LLGLGIILGHFAIPKKANSLAPQ DLDLEILETVMGQLDAHIREN LRELSREPHLASSPRDEDLVQL LLQRWKDPESGLDSAEASTYE VLLSFPSQEQPNVVDIVGPTGGI IHSCHRTEENVGTGEQGGPDVVQ PYAAYAPSGTPQGLLVYANRG AEEDFKELQTQGIKLEGTIALTR YGGVVRGAKAVNAAKHGVAG VLVYTDPADINDGLSSPDETFP NSWYLPPSGVERGSYYEYFGDP LTPYLPAVPSSFRVDLANVSGF PPIPTQPIGFQDARDLLCNLNGT LAPATWQGALGCHYRLGPGFR PDGDFPADSQVNVSVYNRLEL RNSSNVLGIIRGAVEPDRYVLY GNHRDSWVHGAVDPSSGTAVL LELSRVLGTLLKKGTWRPRRSI VFASWGAEFGLIGSTEFTEEFF NKLQERTVAYINVDISVFANAT LRVQGTTPPVQSVVFSATKEIRSP GPGDLSIYDNWIRYFNRSSPVY GLVPSLGS LGAGSDYAPFVHFL GISSMDIAYTYDRSKTSARIYPT YHTAFDTFDYVDKFLDPGFSSH QAVARTAGSVILRLSDSFFLPLK VSDYSETLRSFLQAAQQDLGAL LEQHSISLGPLVTAVEKFEAEA AALGQRISTLQKGSPDPLQVRM LNDQLMLLERTFLNPRAFPEER YYSHVLWAPSHGLRSHIPG\LS
9821	40189	A	9882	1	1962	
9822	40190	A	9883	1	166	MEYYAALKKDEFMSFVGTWM KLETIILSKVCQGQKVKHHMFS LTGALLVRGPWA
9823	40191	A	9884	1	378	
9824	40192	A	9885	1	681	
9825	40193	A	9886	1	3174	MEYYAAIKNDEFMSFVGTWM KLETIILSKLLQGQKTKHRMFSL IGSIIVKVPSSLQAHQLSGKEV DVNSEVHVQEMAEARKDDVV TVTDAEKALDKIQHLFMVKTLS KIGIQGTYNVIKAIYDKPTANII LNGEKLLAFPLRNETRQGCPLS PLLNTVLKVLARAVRQEKEIK GIQIGKEEVILSLFADDMIVHLE NPIVSAQNLLKLIDNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIASER
9826	40194	B	9887	1	352	

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9827	40195	A	9888	3	430	FFFFLPVAGLRRPRPRLGPVPPR PRVPPPQDRAATMKKFFQEFKA DIKFKSAGPGQKLKESVGEKAH KEKPNQPA PRPPRQGPTNEGTD GSRCCPQP/WLEQKQSRWGP IAGHHPKPGEKGTSSRSRQRE PRGPRDQGI
9828	40196	A	9889	1	1062	MKKFFQEFKADIKFKSAGPGQK LKESVGWGRPNGLMSVKGN CECGNLWLLYPEVAALAAEAE GPEVGSVEDQRRQQGYFVRLG SLSARIRHLAYEHSVGLRQSK HRAQDTLAQLQETLELVDHMP CGVTPTAPARPGKVHELWGEW RQRPP/REPPPE\QAELETVLAR SLTHELQGTVEALEFSVWGLPA GAQEKVAEVRRSVDALQTAF DARCFRDVPAAALAEGRGRVA HAHACVDELLELVVQAVPLPW LVGPFAPILVERPEPLDLADLV DEVIGGPDPRWAHLDWPAQQR AWAEHRDGSNGDGD RMGV AGDICEQEPETPSCPVKHNPDA RAGLLTHGPVEAG
9829	40197	A	9890	11	285	
9830	40198	A	9891	2	138	FFFLGFHVFIPLIPRDN SF*GV FSSLDLITAVFVTLAELRSVT

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9831	40199	A	9892	121	2320	EMAFQKAVKGTILVGGGALAT VLGLSQFAHYRRKQMNLAYVK AADCISEPVNREPPSREAQLTL QNTSEFDILVIGGGATGSGCAL DAVTRGLKTALVERDDFSSGTS SRSTKLIHGGVRYLQKAIMKLD IEQYRMVKEALHERANLLEIAP HLSAPLPIMLPVYKWWQLPYY WVGIKL\YDLVARKANCLKSSY VLSKSRALHFPMLQKDKLVG AIVYYDGOHNDARMNLAIALT AARYGAATANYMEVVSLCLK TDP\QTGK\HVSGARCKGCPST GQEFDVRAKCVINATGPFTDSV RKMDDDKDAAA\CPQSAGVHIV MPGYYSPEMGLLDPATSDGR VIFFLPWQKMTIAGTTDPTDV THHIPSEEDINFILNEVRNYLS CDVEVRRGDVLAASWGIRPLV TDPKSADTQSISRNVVDISESG LITIAGGKWTYRSMAEDTINA AVKTHNLKAGPSRTVGLFLQG GKDWSPTLYIRLVQDYGLESEV AQHLAATYGDKAFAVAKMAS VTGKRWPVIGVHLVSEFPYIEA EVKYGKEYACTAVDMISRRT LAFLNVQAAEEALPRIVELMGR ELNWDDYKKQEQLTARK\FL YYEMGYKSRSEQLTDRSEISLL PSDIDRYKKRFHKFDADQKGFI TIVDVQRVLESINVQMDENTLH EILNEVDLNKNGQVELNEFLQL

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9832	40200	A	9893	1	2020	MLKPLMGGGAHRRRAAAGARK WDGTAAHASTSGLEVLWVTTSR SKTVESVGLAKPGQHNDARMN LAIALTAARYGAATANYMEVV SLLKKTDPQTGKVRVSGARCK DVLTGQEFDVRAKCVINATGPF TDSVRKMDDKDAAAACQAISA GVHIVMPGYYSPEMGLLDPAT SDGRVIFFLPWQKMTIAGTTDT PTDVTHHPIPSEEDINFILNEVR NYLSCDVEVRRGDVLAASWGI RPLVTDPKSADTQSSIRNHVVDI SEGLITAGGKWTTYRSMED TINAAVKTHNLKAGPSRTVGLF LQGGKDWSPPLYIRLVQDYGL ESEVAQHLLAATYGDKAFAVAK MASVTGKRV/WPIVGVRLVSDF PYIEAEVKYGIKEYACTAVDMT SRRLAFLNLQAAEEALPRLL ELMGRELNWDDYKKQELET ARKFLYYEMGYKSRSEQLTDR SEISLLPSDIDRYKRRCHKFDAD QRGFMTVVEVQRVLESINVQM DENTLHEILNEVDLNKNGQVEL NEFLQLMSAIQKGRVSGSRLAI LMKTAEENLDRRVPIPVDRSCG GLYFCVRNWWVLGLTDFKNE AADPSGVKLQTFTVSVTALKV ARLELFVSPGGLVVLLGSGVKL QIFAPNMAMHNKAAPPQIPDTR RELAELVKRKQELAATLAKFG
9833	40201	A	9894	2	593	ISSAVEFETSQLSGLWTEQSAA RSRGENVCGPQGPRG/GPWVP AEPTGSPVVSEPLDLLPTDLR QEMPPPRVFKSFLSLLFQGLSVL LSLAGDVLVSMYREVCSIRFLF TVVSLLNLFLSAFWLGLLYLVS PLENEPKEMTLSEYHERVRSQ GQQLQQLQAELDKLHKEVSTV RAANSERGAKLVFQRLNEGFV

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9834	40202	A	9895	1	1105	MRRSSRPGSASSSRKHTPNFFSE NSSMSITSEDSKGLRSAEPGPGE PEGRRARGPSCGLLFQGLSVLL SLAGDVLVSMYREVCSIRFLFT AVSLLSLFLSAFWLGLLYLVSP LENEPKEMTLTSEYHERVRSQG QQLQQLQAELDKLHKEVSTVR AANSERVAKLVFQRLNEDFVR KPDYALSSVGASIDLQKTSHDY ADRNTAYFWNRFSFWNYARPP TVILEPHVFPNCWAFEGVQGG VVIQLPG/HECTLSDITLQHPPPS VEHTGGANSAPRDFAVFFLLSF FTHQGLQVYDETEVSLGKFTFD VEKSEIQTFHLQNDPPAAMPKV KIQILSNWGHPRFTCLYRVRAH GVRTSEGAEGSAQGPH
9835	40203	A	9896	10	395	VEPGKRLIDRIVETICSCFQGPQ TDEGVQLQIIKALLTAVTSPHIEI HEGTILQTVRTCYNILASKNLI NQTTAKATLTQML/NHARSDSG KVSTENGDAERERGSSLSGTN\ DGAQEVVKDILEDVVT

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9836	40204	A	9897	1	1698	MLGTSVEDIAQFLHQEERLDST QVGDFLGDSARFNKEVMYAYV DQLDFCEKEFVSALRTFLEGFR LPGEAQKIDRLMEKFAARYIEC NQGQTLFASADTAYVLAYSIIIM LTTDLHSP/PDLEMHQ PAGARS ADNRNCEALPVWIWA*KRRE PEGPHIGRRRVHGPWPR*FGEW RSG*KTDGQLPRIGW*DQLAEC GCSCGQDFYWVYQTGWKCNS* LCPLAVCCVHG*TGFPSSHV QLAEDCGDIILQHESDPTTVVS NMACDWRS LQ*DKL*MLGTSV EDIAQFLHQEERLDSTQVGDFL GDSARFNKEVMYAYVDQLDFC EKEFVSALRTFLEGFR LPGEAQ KIDRLMEKFAARYIECNQGQTL FASADTAYVLAYSIIIMLTTDLH SPQILKCISQLELAQLIGTG VKT RYLSGSGRERESLKGHTLAGE EFMGLGLGNLVSGGVDKRQM ASFQESVGETSSQSVVVAVDRI FTGSTRLDGNAIVDFVRWLCA VSMDELASPHPRMFSLQKIVE ISYYNMNRIRLQWSRIWHVIGD HFNKTS CDRLRELHVSEVFTVI TETRETKGPRDTPIFIETLVKVK DAEDQLGARVGYIELDLNSGKI LESFRPEERFPMMSTFKVLLCG AVLSRIDAGQEQLGRRIHYSQN DLVEYSPVTEKHLTDGMTVRE LCSAAITMSDNTAANLLTTIG
9837	40205	A	9898	1	492	
9838	40206	A	9899	1	3555	
9839	40207	A	9900	1	4145	MFVLKVGCP SLLL RDP RRSLLH YTCFTSVPVLVQVCNP NEDV AIFAVDSLRLQSMKFLEKGELA NFRFQKDFLRPF EHIMKKNRSP TIRDMAIR CIAQMVNSQAANIR SATIFQH HFPAAIDSFQDAVKCL SEFACNAAFP DTSMEAIRLIRF CGNYL\SERPRVLLEYTSDDMN VAPGDRVWVRGWFPILFELSCII NRCKLDVRTRGLTVMFEIMKS YGHTFEKHWWDLFRI VFRIFD NMKLPEQLSEKS

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9840	40208	A	9901	1	5477	MQESQTKSMFVSRLEKILADK EVKRPQHSQRLRRACQVALAWK LLLIAPLAVGKATPVKMWSNK VEQLTVMNMHSAEQETDEIKA EIEKQRLGTAAPPKANFIEADK YFLPFELACQSKSPRVVSTSLDC LQKLIAYGHITGNAPDSGAPGK RLIDRIVETICSCFQGPQTDEGV QLQIIKALLTAVTSPHIEIHEGTI LQTVRTCYNILASKNLINQTT AKATLTQMLNVIFTRMENQVL QEARELEKPIQSK
9841	40209	A	9902	2	740	TGWEGRAEAEVPQDDRREPRH S/IEVEEEDQKLVSASLEPIGG/P PDCPQKPQ/PQCPLSPSKKWGC DLCL*QHKLAQKWRREISTSVP SQPGLGPGR TADTGPSLPT\TPA GQEAGRTPAPPAWSAFDL DST VVKMEKGWICS*KYTRSQASC SELPRRLGRAGPTEELGMPTQE VAPLPARG*GPESLPL/ASRQEF LSGRTVRVKLGLPLPLTEGKIV LPGGEGGSPHVCPSPWIIERRTA DQGVVAE
9842	40210	A	9903	1	1376	MPSSSVGPAPPSLRGSSEQLAW LRGIFSyrSSPPSPQSSPNQTR SRQHYAPSVFEKYTASVTVGSK EVTNLNYDTAALAGPWPALHS WRPLRGAGCGALEAKPYTKQ WAALGPPMVPGLLRYLLWSLQ TLATPGQRPREGPHAHTPRAEA TAGQEPARDPKGSARNPEPQRP RGKGVRAAPKQGV RGMSIPAQ PHASTRAGSERRSE\QRRLLSSF TGSCDSDLLKFNQLKFRKKKLK FCKSHIHDWGLFAMEPSGDPLE SAWIHARNAPTTTSPQTPHPPPR EAGNP NPPRAPEARGPGHDKA AQKACVHGGPNTQHPRPQPEP AVPPAALAPPPKHQLSSQASSPS RLGRAAERPHKTQQRQTPTHT GPRAAATAEHAPQALPPPAPAP HYNRTRPAQLRNPPTPKKGSEE PAQPTKHTPATPAKRDPKGGG ARRRPARPLQPHSGGEDEKES

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9843	40211	A	9904	724	2076	KLCPCLYHFFHTNVQRHAPFVA NPFLLTTHIQISTKHPAIVGTTELL LCVGGVQVRVLQLAPQRLQLLA QVPALLRLGPGHTLRLQVLLG LGQGCLSLPQGFQQLGPGPTLV FCPLPELLEEDAVGEALATDAD ALQDPVAAKLVQHQPWLQLPG LGKQPPPLPVSQLEVGRAVPLH HPQGALLLLALLEGLQSLLPRV HSPFLHDTFRRHRVPASLQLN SFEQLCITTPQKLQQLFNHTMF VSPPAVNVQANPAGLLALLDEE CWFPKATDKSFVEKVAQEQQG HPKFQIRPRHLRDQADFSVLHY AGKVDYKANEWLMKNMDPLN DNVAALLHQSTDRLTAEIWKD VEGIVGLEQVSSLGDGPPGGRP RRGMFRTVGQLYKESLSRLMA TLSNTNPSFVRCIVPNHEKRAG KLEPRLVLDQLRCNGVLEGIRI CRQGFNRLIFQEFRQ
9844	40212	A	9905	2	480	VGCMGCSKGPWRQAFQVDVH VSDLALPQCRLQTGMRGAFGK PQGTVARVHIGQVIMSIRTKLQ NKEHVIEALRRAKFKFPGRQKV CSAAAPFSLCPRPPDSVLSIAP *IHISKKWGFTKFNADEFEDMV AEKRLIPDGCYVGYIPSRGPLD KWALHS
9845	40213	A	9906	1	485	SDEYDQLCSEALVGAQICAKK YIVKCCGKNGFHIRVRLHPFHV ICINRMLACAGTDRLQTGMGG AIGKPQGTVARILIGQVIMSIRT KLQNKEHVIEALRRAKFKFPGR QKIHISKKWGFTKFNADEFEDM VAEKRLIPDGCYVGYIPSRGPL DKWALHS
9846	40214	A	9907	198	452	DYYLEGLINHIVHHDHFLNLQN HSSNLPVAEICYR*RYRKKVQQ RIIIAKDYTTTELSNR*LFN

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9847	40215	A	9908	2	1968	SYLHCKWATMEELEKDPRIAQ KIKRFRNKQAQMKHIFTEPDED LFNPDYVEVDRILEVAHTKDAE TGEEVTHYLVKWCSLPYEEST WELEEDVDPKVKEFESLQVLP EIKHVERPASDSWQKLEKSREY KNSNQLREYQLEGMNWLLFN WYNRKNCILADEMGLGKTIQSI TFLSEIFLRGIHGPFLLIAPLSTIT NWEREFRTWTEMNAIVYHGSQ ISRQMIQQYEMVYRDAQGNPL SGVFKFHVVITTFEMILADCP ELKKIHWSCVVIDEAHRLKNRNCK LLEGLKLMALEHKVLLTGTP LQNSVEELFSLNLFLEPSQFP SETAFLEEFGLDKTEEQVKKL QSIKPMMLRRLKDDVEKNLAP KQETIIEVELTNIQKKYYRAI LEKNFSFLTKGANQHNMPNL INTMMELRKCCNHPYLINGAE EKILEDFRKTHSPDAPDFQLQ GMIQAVAGKLVLIDKLLPKLI AGGHKVLIFSQMVRCLEIDYLI QRRYTYERIDGRVRGNLRQA AIDRFCKPDSDFVFLCTRA GGLGINLTAADTCIIFDS DWNPNQNDLQVPEGRIQKV WEQMSWPRAQPQDNAAAAC LQDFGSQLGVQSEETGPFH NRQKQDSGNSHTAPRGRES FIKPPSSRDLLPLKIQKEG PATNYNS
9848	40216	C	9909	223	402	

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9849	40217	A	9910	1	1710	MFEKAARQEWIQVAKSVTRVAMSSYTFQKNPDLISVGEDVEKKLELSYAAVTMAWGOYGDYGYPYQQYHDYSDDGWNLNRQGFSYQCPQQGVIVAVRSIFSKKEADSVSRASATGPDGQFFLLERVGTCCTTAEAPQRDDPYLVRTVEGLSRTVEGVGRGLTQAAAGEGAGAVEAAWNSLCGPFSSTPMASDEETEAIRGHETRPDDTAKNSGAIQQHSQCSWPLY/RAPHSVKRYQTCSNGLVAGFQSRYFESVLDREWQFYCCRYSKRCPYSCW/LSLAADQTLMTPGVGEAPRKCSSFRRKGNRTIEPALTGPKSPTYSVGMPSLKLRPNDSHPSAVLLLPNFWLTTEYPGHYGEEMDMISYNYDYYIRGATTTFSAVERKEERRERKGGDKKHTEPTVLVWAAIPHYLRNLRTIEIYFHSSGSWKVQDQVDPEEPARQNHDRVPCHTPPLGGQEGDSQPVVMRAKDHYELEKQKALGQVEDEEDLCQQQRLPEQTYGSEEAPQEAKKNLGSPEPNSQAGAQPISMATNRAVFDVTCNFSPHWLQCLQSRSLSPEDPGL
9850	40218	B	9911	101	1237	
9851	40219	A	9912	1	622	NLSDRHRGSHLESQHFORLKEQEDLLSPRIQDQPGQHWETLSHINIVVIGHVDSGKSTTTGHLIYKCGIDKRTIEKFEKEAAEMGKGSFKYAWVLDKLKAER\ERGITIDISLWKFETSKYYVTIIDAPGHRDFIKNMITGTSQADCAVLIVAAGVGEFEAGISKINGQTREHALPG/YSQKRYEEIVKEVSTYIKKIGYTPDTVACVP
9852	40220	A	9913	1	762	VVQTQISKTADELISYWGTSFPPPFAASLTLYELEYCITIDISLWKFETSKYYATVIDAPGHRDFIKNMITGTSQADCAVLIFAAGVGEFEAVTFAPVNVTTTEVKSVMHHVVLSEALPGDNVDFDVKNVSVKEVHHGNVAGQISAGCAPVLDCHMAHIACKFAKLKKKTGSTSGKKLEDGPTFLKSGDAAIVDMVPGKPMCVESFSVYPPLSRFAVCDMRQTVAVGVIEAMDKMAA\GAGKVTMSAQKAHNAK

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9853	40221	A	9914	1	618	MVQARPGAHPTLLPGPTAAWV SGFSGGSDLTGAREAQERGR WSPTSSSASVSPVAKVSKFTLS SELEGGDYPKERERTGGGPGRP PDWTPHGTGAILQSPHPRTAPA PHPTPCGRPRDAGQRSPGAPA WSPRVHRPTPSLLPPRRWTAAA LWAAWQRPLPASQPGRGTSPG NPGPGRTPPSPQEVGSPGHIHIS LRTGFPPTL
9854	40222	C	9915	3	406	
9855	40223	A	9916	1379	2096	NGGGCGAARGGAAPGEGTRRG ACWATRGLPGTGRSAAAPARR GERQQLAMDVFLMIRRHKTIF TDAKESSTVFR/ELKRIRRGQSS KRPPDEQRL\YK\DDQLLD\DG\ KTLGECGFTSQNRHRPQAPAT VGSGLPASSAASSTDDTFEALCI EPFSSIPPEL\PDVDGRPQGFEGG SAQLNKAVQVETPQEGPIFPQL KGDGLSLPGCCLFFPPLPGMGP TPCGLLLGLVLGSSCAVLSPRS
9856	40224	A	9917	1	695	MAHAGRTGYDNREIVMKYIHY KLSQRGYEWDAGDVGAAPPG AAPAPGIFSSQPGHTHPAASRD PVARTSPLQTPAAPGAAAGPAL SPVPPVVHLALRQAGDDFSRRY RGDFAEMSSQLHLTPFTARGRF ATVVEELFRDGSVNREMSPLAV DNIALWMTEYLNRLHTWIQD NGGWPWDFLIGATTPTVITYLP YHSTEECQLINVKGTAEFKIPFA KPDEMIQAKIIDGC
9857	40225	A	9918	3	422	CSLKNWREVLALLTYSGTEKF PELCDLMEKVMVLNRSLEQLR GPH/GGSAVLGQQSPFPFPRIV VGATLHSETSSYRLGSQPSHQ VPTSPRPRVFTPQSSPAMPLAP SHSPYQGPRTQNISDYRAPGP QAIQPLPL
9858	40226	A	9919	1	849	

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9859	40227	A	9920	3	868	NSSPPFFPRIVVGATLHSEKTS SYRLGSQPSHQVPTSPRPRVFT PQSSPAMPLAPSHSPYQGPRT QNISDYRAPGPQAIQPLPLSPGV RPGPQDSWKEAPAPRGNLQRN KLPETFMPPAPITGPS/IM/RPHP* ATRDSSTAPLSPV*VMLPQEF QENS\PAGDKDNVFP SLGKPPSP PCVQVMVDGPHSSR/PCAEGD WVQVPGVLTAEKGRLLISPTLL *WEQCDCESLGTSP*GSHEKDS LPLWPFSLLLYQQLQHLPEKEM ERKELPPEHQSLKSSFEALLQRC
9860	40228	A	9921	1	307	MKLKELERPAVQAWSPASQYP LYLATGTSAQQLDSSFSTNGTL EIFEVDFRDPSLDLKHGRVLSA LSRFHKL VWGSFGSGLLESSGV IVGGDNGMLILYNVTHILSSG KEPVIAQKQKHTGAVRALDLN PFQPPEDIKALSWNRQAQHILSS AHPSGKAVVWDLRKNENPIIKVS DHSNRMHCSEGLAWHPDIATQL VLCSEDDRLPVIQLWDLRFASS PLKVLESHSRGILSVSWSQADA ELLTSAKDSQILCRNLGSSEPC PRLVFISQVTTESEFLMRSAELQ EALGSGNLLNYCQNKSSQALL QSEKMLWQFLKVTLEQDSRMK FLKLLGYSKDELQKKVATWLK SDVGLGESPPKGNLNSDRQ QAFCSQASKHTTKEASASSAFF DELVPQNMTPWEIPITKDIDGLL SQALLLGELGPAVELCLKEERF ADAILAQAGGTDLLKQTQERY LAKKKTKISSLLACVVQKNWK DVVCTCSLKNWREALALLTY SGTEKFPELCDMLGTRMEQEGS RALTSEARLCYVCSGSVERLVE CWAKCHQALSPMALQDLMEK VMVLNRSLEQLRGPHGVSPGP ATTYRVTYANLLAAQGSLAT AMSFLPRDCA/PAARDIYAPSTN YCSSYEHPH*ATRDSSTAPCLQ SASAPAT*EDGKEGAAPRASVL EEQL*GASPTLLPVCN*LKDKK

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9861	40229	A	9922	3	2751	SVSWSQADAELLTSAKDSQIL CRNLGSSEVVYKLPTQSSWCFD VQWCPRDPSVFSAASFNGWISL YSVMGRSWEVQHMRQADKISS SFSKGQPLPPLQVPEQVAQAPLI PPLKKPPKWIRRPTGVSFAGG KLVTFGLPSTPAHLVPQPCPRL VFISQVTTESEFLMRSAELQEAL GSGNLLNYCQNKSQALLQSE KMLWQFLKVTLEQDSRMKFLK LLGYSKDELQKKVATWLKSDV GLGESPPQKGNLNS
9862	40230	A	9923	363	543	
9863	40231	A	9924	2	737	EAETEFVRCIKHMFTNHIVFQ LFHLLTFQFDCTNTLNDQLEK VTVQMEPSESYEVLSCIPAPSLP YNQPGICYTLVRLPDDPTAVA GSFCTMKFTVRDCDPNTGVDP EDGNDDEYVLEDLEVTVSDHIQ KVLKPNFAAAWEEVGDTFEK EETFALSSTKTLEEAVNNITFL GMQPCERSDKVPENQDASHSL YLAGIFRGGYDLVLRARLALA DGVTMQVTVRCKHRTVPDIILA
9864	40232	A	9925	327	464	GSPTTRPAKPLTLSSGHLRSRPR WAEGPQYHLP*ISAPRAKLGV MM
9865	40233	A	9926	2	1179	WQPDIGPYGGLNVLVVDGLFII GWMYLPHPDHPVDDPMRFKPL FRIHLMERKAATVECMYGHKG PHHGHQIVKKDEFSTKCNQTD HHRMSGGRQEEFRTLWREEWG RTLEDIFHEHMQELILMKFIYTS QYDNCLTYRRIYLPSPRPDDLK PGLFKGTYGSHGLEIVMLSFHG RRARGTKITGDPNIPAGQQTVEI DLRHRIQLPDLENQRNFNELSRI VLEVRERVQRQEQEGGHEAGE GRGRQGPRESQPSAQPRAEAP SKGPDGTPGEDGGEPGDAAVAA AEQPAQCGQGQPFVLPVGVSSR NEDYPRTCRMCFYGTGLIAGH GFTSPERTPGVFILFDEDRFGFV WLELKSFSLSRVQATFRNAD APSPQAFDEMLKNIQSLTS
9866	40234	A	9927	287	537	TGKFPSC/CLLSFYGTGLIAGHG FTSPERTPGVFILFDEDRFGFVW LELKSFSLSRVQATFRNADAP SPQAFDEMLKNIQSLTS
9867	40235	A	9928	1	3651	

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9868	40236	A	9929	1	3720	MEEMFGGGAADDY GKAGPPE DEGDPKAGAGPPP GPAYDPY GPYCPGRASGAGPETPGLGLDP NKPELPSTVNAEPLGLIQSGPH QAAPPPPPPPPPAPASEPKGG LTSPIFCSTKPKLLKTSSFHLL RRRDPPFQTPKKLYAQEYFEA DEDKADV PADIRLNPRRLPDLV SSCRSRPALSPLGDIDFCPPNPG PDGPRRRGRKPTKAKRDGPPRP RGRPRIRPLEVPTTAGPASASTP TDGAKKPRGRG
9869	40237	A	9930	503	739	QGWRRRRPISKISESRNMQNFL HALSNCLPEGGA*DRCSSRLEE GRQLPPLLGLSLQVAKKSGGTG WMVRCSQCLFLG
9870	40238	A	9931	1	1148	MGGKGDDSWVISATPLGKCCA AVPLGGNPTLRVDQLWRKQRP PLQQCTASAPGGWVTSLMGAG THAANTGFQLVWSSKRPMYKV LQAFFGVQRSDRSAMNGQGFS KCVGMPITHTRQQADLGRGPE ETEDKKQQRGSDEL RSEGEEP EPYLLRTSKIVKDKERILKAARE MKQIIYNGAPIHLAADF SVETL QAKKEWCDIFKVLKKKTFYPK MVLTAGPSHPQSVISVSFTGLA NAASLTMSPD LHGQPGFAGLSS VAAVDWQWALLRSPPPQGRM GLLPICQATQGPQLCVASPSDK EGFLLLF GKEIARLTNKG GARL YKCDIVQGVCCEDPLATLDWE LRPDLEQGERPTPERHKPFLLG KSFSAPLIKICRYEWQMF
9871	40239	A	9932	333	689	NSFLT CILPPVSI*TDLLQPSAQ WKQLSLARRNVHSTRLAGARR CAASGPSPVAAHCYHPVSGHSR LLHGCQHGHWSWQVPEVPPG SPFSLAPVWKRRQTALPAILHL PVEHYYPEL

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9872	40240	A	9933	84	933	PLTSPEAFSNRCGLRGPP\PCVP VGRLQF\NDVSSLGICLPDSSCC SSWHGPHSLHH/HVQACKASIR ASGTAASANCAFSRYHVHCSIA FQIKVLHNLIVLTVIIPAAEHMA WGP GIAQPNPPHRASGHSSWGP EVGPKLSTTAILVGTPQVPPV GLETGPPSLFQPLPISTHTAWNT ENCPANATVIAHPTLAAQGTKN PPTLLVHHCHYQHLSLKDDGT RRENSLKLGEKGVILQTEGIQK GMDPTMEYATNYWKKLQLWK RRQTALPAILHLPVEHYYPEL
9873	40241	A	9934	1	627	MESLDTETSTWGECHRKIRGM VPQVKELAE EEEAPPDGA VAE YRREKQKYEALRKQQSKKGTS REDQQIIKNLPCTNHCIWQSTH EHIPALSDLSGKRAKQVIPVKG GEHYERTLALLNQFKSKLTQAI AETPENDIPETEVE\EDDEGWMS HVL\QFEGKSRKSGKVPSMQDS DTFEIYDPRNP/LVNKRREGKK AKSLMREKKERRLK
9874	40242	A	9935	1	371	PMRPAFTRVEMARVLMERNQY KERLMELQEA VRWTE MIRASR EHPSVQEKKKSTIWQFFSRLFSS SSSPLRPKRPYPSVNIHYKSPT GCSVAAGFSPPCHLHCDVCPL PRLFPQDLEVTPG
9875	40243	A	9936	2	186	
9876	40244	C	9937	109	408	
9877	40245	C	9938	161	341	
9878	40246	C	9939	303	439	
9879	40247	C	9940	201	419	
9880	40248	C	9941	122	307	
9881	40249	A	9942	3	80	YNPAPYKEKTITL/PCPRKLGPP QGS/S*NGPPSSSSSSQCSVSFND PHLPEGQVQAAR*WAPPGIL
9882	40250	C	9943	249	427	
9883	40251	A	9944	90	244	TVVPHDPCGTDAHVCETHMD MCPSHSMVLCGWLTFAEFRGA MGEGGRESFLLNQASFCY*CSQ AGFSSNLWRCSRAGRGN TADE LWCHMTLVAQMPTYVKHTWT CVPATVLCVAGSPLLSSGVQW GREGGKASS
9884	40252	C	9945	4	204	
9885	40253	C	9946	340	497	
9886	40254	C	9947	158	184	

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9887	40255	A	9948	200	386	LFYTME*IMAFLLSSSSSPGRPF* RILGGAKVYAGMQRYSFFLIGS RIITYLGIFGRELYFC
9888	40256	B	9949	47	622	
9889	40257	A	9950	1	630	
9890	40258	A	9951	1	782	
9891	40259	A	9952	1	677	MHGLGRWDACPQDEMSESGQ SSAAATPSTTGTKSNTPTSSVPS AAVTPLNESLQPLGDYGVGSK NSKRAREKRDSRNMEVQVTQE MRNVSIGMGSSDEWSDVQDIID STPELDMCPETRLDRTGSSPTQ GIVNKAFGINTDSLYHELSTAG\ S*VIGDVDEGADLLGNDRKK VYTSVQTRPPQACTFSVRLVES THAELVGIEGRLYHKIHLRVH GAVGYSVLT
9892	40260	C	9953	202	366	
9893	40261	A	9954	1	2429	MKEGGWGCDPVGRGVTSGHV LQMKLLPFRQKKAHIMEIQLNG GTVAEKVAWAQARLEKQVPV HSVFSQSEVIDVIAVTKGRGVK GVTSRWHTKKLPRKTHKGLRK VACIGAWHPARVGCSIRAGQ KGYHHRTELNKKIFRIGRGPHM EDGKLVKNNASTSYDVTAKSIT PLGGFPHYGEVNNDVMLKGC IAGTKKRVTLRKSLLVHHSRQ AVENIELKFIDTTSKFGHGRFQT AQEKRAFMDGLSLSPAASDS DYPPGEMFLDSDVNPEDPGAD GVLAGITLVGCATRCNVPRSNC SSRGDTPVLDKGQGEVATIANG KVNPSQSTEEATEATEVPDGP SEPETATLRPGPLTEHVFTDPAP TPSSGPQPGSENGPEPDSSSTRP EPEPSGDPTGAGSSAAPT MWLG AQNGWLYVHSAVANWKKCLH SIKLKDSVLSLVHVKGRLVAL ADGTLAIFHRGEDGQWDLSNY HLMDLGPHHSIRCMAVVYDR VWCGYKNKVHVIQPKTMQIEA SAGQGPGEGRLLASSSPASSI RKSTRPTHDS\KSFDAHPRRES QVRQLAWIGDGVWVSIRLDST LRLYHAHATHQHLQDV DIEPYVS KMLGTGKLGFSFVRITALLVAG SRLWVG TGNGVVISIPLTETVV LHRGQLGLRANKTSPTS GEGA RPGGIIHVYGGDSSDRAASSFIP

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9894	40262	A	9955	9	452	KIKVLSKNSQVTDFFPVPTLLND GQCLGYNSTPYKEKAITL/PCPR KLGPPQGSFKTA/APSSSSPSFNF FNGSQNSVTNFWSSCFH*KVLI LKTNNLKLPHAKKTKVV/LQ NILLSF*RFYDALLSLTSLLLL LNGQLKQTVMRPFFHH
9895	40263	A	9956	1	3223	ATATPSTTGTKSNTPTSSVPSAA VTPLNESLQPLGDYGVVSKNSK RAREKRDSRINMEVQVTQEMR NVSIGMGSSDEWSDVQDIIDST PELDMCPETRLDRTGSSPTQGI VNKAFGINTDSL\YHELSTAGS\ EVIGDVDEGADLLGEFSGMGK EVGNLLLENSQLLETKNALNV VKNDLIAKVDQLSGEQEVLRG ELEAAKQAKVKLENRIKELEEE LKRVKSEAIARREPKEEAEDVS SYLCTESDKIPMAQ
9896	40264	B	9957	176	658	
9897	40265	A	9958	2	5671	AGGPCVRSSRELWTILLGRSAL RELSQIEAELNKHWRRLLEGLS YYKPPSPSSAEKVKANKDVAS LKELGLRISKFLGLDEEQSVQLL QCYLQEDYRGTRDSVKTVLQD ERQSQUALILKIADYYYEERTCIL RCVLHLLTYFQDERHPYRVEY ADCVDKLEKELVSKYRQQFEE LYKTEAPTWETHGNLMTERQV SRWFVQCLREQSMLLEHFLYY AYFEMAPSDLLVLTkMFKEQG FGSRQTNRHLDVETMD
9898	40266	A	9959	1	404	MVDQEAIFGCKNRNNC SHLEPP VSRLEGGAFVRDLLSPTQYLLA SCPYQYDGSFVIQQIPSSNLFMV VVDSSCLCESVAPITMAPIEIRYI LLC\EVHSLPRKPENARECGGA PSL\QAQTVLLLLPLLLMLFSR
9899	40267	A	9960	1	1374	
9900	40268	A	9961	102	205	

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9901	40269	A	9962	1	1527	MVPDAAVLAQLAIRARVNRRW PTGLSAPHLCGAACSRCHAAI AKYFGDALPACAKGCDHCQNP TAVRRRLEALERSSSWSKTCIG PSQNGGFDPELYEGGRKGYGG FSRYDEGSGSGSGDEGRDEAHK REWNLFYQKQMLRKGDPKI EEFVPPDENCPLKEASSRRIPRL TVKAREHCLRLLEEALSSNRQS TRTADEAD\FRAKAVELEHETF RNAKVANLYKASVLKKVADIH RASKDGQPYDMGGSASCSAQ AEPPEPNEYDIPPASHVYSLKPK RVGAGFPKGSCPFQTATELMET TRIREQAPQPERGGEHEPPSRPC GLLDEDGSEPLPGPRGEVPGGS AHYGGPSPEKKAKSSSGGSSLA KGRASKKQQLLATAAHKDSQS IARFFCRRVESPALLASAPEAEG ACPSCEGVSGTPDWPQRSTQGR KMEPGDIRLPLPRLRSASGRGQ APARPETRAPLKSSPPLQRTHG KGKRPRFPARRTQRASLRRGHA PQPIPPS
9902	40270	A	9963	2	99	
9903	40271	A	9964	115	1360	ENGQLHVMVNLALDGVRSSLQK PRPFRLFPGFSVELCMNREDD TARKEKDHFIFTYTREGNLR SAKSLFSLVLGFISDNVDHIDSLI GFPEQIAEKLFSAAEARQKFTEP GAGLARALQKFTGGLWEVWVL CSLCFLLWKLDPICCKLGDEHE LLEHLTNEALSRY*PVTTCR*IV SVLF*RLIQDYRVMKRGLENL TLLDLSCKFSSKL*IILMLEEWP *RSCSSFSGTGLKVRLLVPSLIFL DSTI*YFACANWEFDHSNCKTE GWADQVLQIFLPCG*CSFSS*FQ VSYPTSRETAESCFRSTLSLVQN MHDEAAQRFCEKFPFL*SFLPFI CILKAVRLF*KLQFYKEKAPDC HGPVLKHEAISSQESKSKKRP FEESETEQNNSSQPSKQKYVCL AVEDWDLNSY

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9904	40272	A	9965	3	1026	DNVDHIDSLIGFPEQIAEKLFFA AEARQKFTEPGAGLRALQKFTE AYGSLVLC SLCLRNRYLVISEK LEEIKSFRELTCLDLSCCKLGDE HELLEHLTNEALSSVTQLHLKD NCLSDAGVRKMTAPVRVMKR GLE\NLTL\DLSCNPEITGGRA LGYPLFLFRGNL\CFRDISGDR GSRDIKTL\KHKLQTHIGLVHSK VPLKEFDHSNCKTEGWADQIV LQWERTVTA EAVKPRETSEPIAA AQRFGYGRSRAEAPLK\CPHAD TH\MNSS\EKLQ\FYKEKAP\DCH GP\VLKHEAISKPRSPKSKKRP FEESETEQNNSSQPSKQKYVCL AVEDWDL\NSY
9905	40273	A	9966	1	289	VKHCLHRPILWDPWKTSGIQQ VLTPL*KAMEKLEAILLIICSLE AIGLITLPSLSMTQFLQLHVECC YVSPDQTPYFIDVETAMKDEV TVHNPHG
9906	40274	A	9967	1	1413	MVPPNIAELKNLEVLNFLNNQ IEKLPTQISRLQKLKHLNLGFLS PCNSMNRLNISPQGFGLPALE VLDLTYNLNLNENYLPGNFFYLT TLCALYLSDNDFEILPPDIGKLT KLQILSNRDNNLISLPKEIRVLT QLKELHIQGNRLTVLPPELGSR GGSGSRFSAETATGGAQNAPPS VLGSAGTIFK\QRRNPSPAALRG GSVAA*PSPAAAKYGKDQREH LPTAAGDGVGWEPTRDIVGS ATAQALSQANAARGRLSTAQA AGSLHVECCYVSPGQTLYFTDV EIEAMKDESRGISILYKHRHLK VPLDQKLPSKSGHQPDGYGQH DHKPMQMTSLTRNIATLR
9907	40275	A	9968	1	619	MNRLNISPQGFGLPALEVLDL TYNNLNLNENYLPGNFFYLTTLCA LYLSDNDFEILPPDIGKLT KLQI LSNRDNNLISLPKEIRVLTQLKE LHIQGNRLTVLPPELASSRCGP LSHPYAGKRIPRNAVFKFEQNT PWHTPPKKAGREMLLDVTGFP EAATSKPPAFLHRRRGRGSWNP RSRSSSLQRTWP PPGSREAEYPP ASGA

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9908	40276	A	9969	810	1672	GLPSVTMSKSLKKLVEESREKN QPEVDMSDRGISNMLDVNGLF TLSHITQLVLSHNKLT MVPNIA ELKNLEVLNFFNNQIEELPTQIS SLQKCLKHLNLGMNRLNLTLP FGSLPALEVLDLTYNNSLSEN PG\NFFYL\TTLRALYLSDN\DF EILPPDIGK\TKLQILSLRDNDL ISLPKEIGELTQLKELHIQGNRL TVVPPEL\GNLGF*LGQKQVFK AENNPWVTPIADQFQLGVSHVF EYIRSETYKLYLGRHMQANPEP PKKNNDKSKKISRKPLAANNR
9909	40277	C	9970	120	347	
9910	40278	A	9971	2	10018	LCVSPVTAGRPASRLREMEVEQ EQRRRKVEAGRTKLAHFRQRK TKGDSSHSEKKTAKRKGSADV ASVQEE SPVTKEDSALCGGGDI CKSTSCDDTPDGAGGAFAAQP EDCDGEKREDLEQLQKQVND HPPEQCGMFTVSDHPPEQHGM FTVGDHPPEQRGMFTVSDHPPE QHGMFTVSDHPPEQRGMFTISD HQPEQRGMFTVSDHTPEQRGIF TISDHPAEQRGMFTKECEQECE LAITDLESGREDEAGLHQ
9911	40279	A	9972	2	5196	APLDGEVELLQQKLREKLDEFN ELAIQKESADRQVLMQEEIQR LEEMNINIRKKVAQLQEEVEKQ KNIVKGLEQDKEVLKKQQMSS LLLASTLQSTLDAGRCPEPPSGS PPEGPEIQLEVTQRALLRRESEV LDLKEQLEKMGDLESKNEEIL HLNLKLDMQNSQTAVSLRELE EENTSLKVIYTRSSEIEELKATIE NLQENQKRLQKEKAEEIEQLHE VIEKLQHEL SLMGPVVHEVSDS QAGSLQSELLC
9912	40280	A	9973	1	8277	GEFGSEKKTALHEKEETLRLQS AQAQPFHQEESLSLQLQKKN HQVQQLKDQVLSLSHEIECRS ELEV LQRRERENREGANLLS MLKADVNL SHSERGALQDALR RLLGLFGETLRAAVTLRSRIGE RVGLCLDDAGAGLALSTAPAL EETWSDVALPELDRTLSECAEM SSVAEISSHMRESFLMSPESVRE CEQPIRRVFQSLSLAVDGLMEM ALDSSRQLEEARQIHSRFEKEFS FKNEETAQVVRKHQ
9913	40281	A	9974	1	393	

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9914	40282	A	9975	2	153	
9915	40283	A	9976	184	790	KFTKHISMNQEDLDPDSTTDVG DVTNTEELIRECEEMWKDME ECQNKLSLIGTETLTDSNAQLSL LIMQVKCLTAELSQQWQKKTPE TIPLTEDVLITLGKEEFQKARGQ DLEMVLSTKESKNEKLKEDLER EQRWLDEQQQIMESLNLVHSE LKNKVETFSERIFNELKTKML NIKEYKEKLLSTLGEFLEDHFPL
9916	40284	C	9977	23	217	
9917	40285	A	9978	25	100	
9918	40286	A	9979	1	2850	
9919	40287	A	9980	108	1132	HPHQVETSRDVAGEQSHAVAF MSTGISQADVCRLEWFSAPNLK GRPRKKKPCPQRDSFSGVKDS NNNSDGKAVAKVKCEARSALT KPKNNHNCKKVSNEEKPKVAI GEEGRADEQAFVLALYKYMK ERKTRIERIPYLGFNQINLWTMF QAAQKLGGYETITARRQWKHI YDELGGNPGSTSAATCTRRHYE RLILPYERFIKGEEDKPLPPIKP RKQENSSQENENKTKVFGTKRI KHEIPKSKKEKENAPKPQDAAE VSSEQEKEQETLISQKSIPEPLPA ADMKKKIEGYQEFSKPLASR VDPEKDNEDQGSNSEKVAEE AGEKGPTPLPSAPL
9920	40288	B	9981	177	3543	
9921	40289	B	9982	63	374	

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9922	40290	A	9983	1	2023	MGGGSWAPTGLCPLQSLAMS PEKRKLAAQEGQFTEPRPEEP KEKLHTLEEFSEFFRAPEKDM VSM AVLPLARARGHLWAYSCE PLRQPLLKR VHANVDLWDIAC QIFVDILPHQACTSAVVGVS YPQSVSAWSCPSTVLLDSHTIL RYMGDYP SRQAWPTLELTDQIF TLALQHPALQDEVYCQILKHLT HNDRHSEERG WQLLWLCTGL FPPSKGLLPHAQKFIDTRRGKLL APDCSRRIQKVLRTGPRKQPPH HVEVEAAEQNVSRICHKIYFPN DTSEMLEV VANTRVRDVCDSI ATRLQLASWEGCSLFIKISDKVI SQKEGDFFFDSLREVS DWVKK NKPQKEGEEASVELGEGVAGW VEGALAASVRPMPHPSIRSRSVS LGCGNNQALGPGGAPVTLPYQ VYFMRKLWLNISPGKDVNADT ILHYHQELPKYL RGFHKCSRED AIHLAGLIYKAQFNND RSQLAS VPKILREL VPENLTRLMSSEEW KKSILLAYDKHKDKTV EEA KV AFLKWICRWPTFGSAFF/EGEG KPCPTPGPPTQAASAQPSRPS VNQHTSWQTSEPSYPDVILIAIN RHGVLLIHPKTKDLLTTPFTK ISSWSSGSTYFHMALGSLGRGS RLLSETSLGYKMDDLTSYVQ QLLSAMNKQRGSKAPALAST

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9923	40291	A	9984	428	2502	VSKEIVYNKLLPYAERLDAESD LQLAQIKCNLGRAVQLQELWP GGLFWTRKLS/TRAGPLALSSLE LSPSGDPRVVTEPVKYSSRPPCH FPTGLPGSLPSLYVLRICFSRSV RVVVFPFGGPWVAQGP RPGR ETWGFTMLLR YIRLYGRKFSKE DHVLFIKLLYELVSIPKLEISMM QGFARLLINLLKYFPADATAEM LEEW RPLMCPFDVTM QKAITY FEIFLPTSLPPELHHKGFKLWFD ELIGLWVSVQNLPQWEGQLVN LFARLATDNIGYIDWDPYVPKG GPSKLVQKHLAGLFNSITSFYH PSNNGRWLNKLMKLLQRLPNS VVRRLHRERYKKPSWLTVPVDS HKLTDQDVTDFVQCIIQPVLLA MFSKTGSLEAAQALQNLALMR PELVIPPVLERTYPALETLTEPH QLTATLSCVIGVARSLVSGGRW FPEGPTHMLPLL MRALPGVDPN DFSKCMITFQFIATFSTLVPLVD CSSVLQERNDLTEVERELCSAT AEFEDFVLQFMDRCFGLIESSTL EQTREETETEK MTHLESLVELG LSSTFSTILTQCSKEIFMVALQK VFNFSTSHIFETR VAGRMVADM CRAAVKDWGKPGDLWNLGIQ WHVPSSEEVSAFYLLDSFLQP ELVKLQHCGDGKLEMSRDDIL QSLTIVHNCLIGSGNLLPPLKGE
9924	40292	A	9985	2	5396	AESDLQLAQIKCNLGRAVQLQE LWPGGLFWTRKLSTYIRLYGR KFSKEDHVLFIKLLYELVSIPKL EISMMQGFARLLINLLKKKELL SRADLELPWRPLYDMVERILYS KTEHLGLNWFNPSVENILKTLV KSCRPYFPADATAEMLEEW R LMCPFDVTM QKAITYFEIFLPTS LPPELHHKGFKLWFD ELIGLWV SVQNLPQWEGQLVNL FARLAT DNIGYIDWDPYVPKIFTRILRSL NLPVGSSQVLVPR
9925	40293	A	9986	1	477	VREFPGRFRFGCCGALRPRYKR LVDNIFPEDP/GYVCIAMEALDQ LLMACHCQSINLFVESFLKMVA KLESEKSNLQILGTNSFVKFA NIEEDTPSYHRSYDFVSRFSEM CHSSHDDLEIKTKIRMSGIKSLQ GVVRKTVNDELQANIWDPQH

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9926	40294	A	9987	1	2371	AGGARLRPARGRPPRLPPRPG PCRPPVPAPT VNERRAPPRAG WERRSDAGLSRGARPAEMYGV CGCCGALRPRYKRLVDNIFPED PEDGLVKTNMEKLTFYALSAPE KLDRI GAYLSERLIRDVGRHRY GYVCIAMEALDQLLMACHCQS INLFVESFLKMVAKLLESEKPN LQILGTNSFVKFANIEEDTPSYH RSYDFFVSRFSEMCHSSHDDLEI KTKIRMSGIKGLQG VVRKTVN DELQANIWD PQHMDKIVPSLLF NLQHV EEAESRSPSPLQAPEKE KESPAELAERCLRELLGRAAFG NIKNAIKPVLIHLDNHSLWEPK VFAIRCFKIIMYSIQPQHSHLVIQ QLLGHL DANSRSAATVRAGIVE VLSEAAVIAATGSVGPTVLEMF N\TLLRQLRLSIDYALTGSYDGA VSLGTKIIEHEERM FQEAVIKT VGSFASTLPTYQRSEVILFIMSK VPRPSLHQAVDTGRTGENRNR LTQIMLLK SLLQVSTGFQCNNM MSALPSNFLDRLLSTALMEDAE IRLFVLEILISFIDRHGNRHKFSTI STLSDISVLKLVKVDKCSRQDTV FMKKHSQQLYRHIYLSCKEETN VQKHYEALYGLLALISIELANE EVVVDLIRLVLA VQDVAQVNE ENLPVYNRCALYALGAAYLNLI SQLTTVPAFCQHIHEVIETRKKE APYMLPEDVFVERPRLSQNLDG
9927	40295	A	9988	1	662	IPGSTISWSPAAARGLSVCRCCR LHPASAMDLFGDLPEPERSPRP AAGKEAQKGPLL FDDLPPASST DSG/SSLQALPGSGGPLLFDDL PASSGDSGLATSISQMVKTEG KGAKRKTSEEKNGSEELVEK KVCKASSVIFGLKGYVAERKGE REEMQDAHVILNDITEECRPPSS LITRVSYFAVFDGHGGIRASKF AAQNLHQNLIRKFPKGDVISVE

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9928	40296	A	9989	3	1145	KEAQKGPLLFDLPPASSTDSA VAALGTTSPVTLWFLQTRRGS KIWRNSLDYQSKVGAEPWCHE RQQKADRFLGKRGRVPASSVIF GL\KGYVAERKGEREEMQDAH VILNDITEECRPSSLITRVSYFA VFDGHGGIRASKFAAQNLHQN LVRKFPGDVISVEKTVKRCLL DTFKHTDEEFLKQASSQKPAW KDGSTATCVLAVDNILYIANLG DSRAILCRYNEESQKHAALSLS KEHNPTQYEERMRIQKAGGNV RDGRVLGVLEVSRSIGDGQYK RCGCHLCAPTSRRC\QLTP\NDR FI/LVWPCDGLFKVFTPEEAVN FIL\SCLEDEKIQTRREGKSAADV RLRSSPATRLANKAVAAGARP DNVTVMVVR\IGH
9929	40297	A	9990	2	419	
9930	40298	A	9991	2	1842	CLRLIAAAPPI/AIEPATTSSLALF LLLQRDQSSRTRGLPEEKKEEVT MDTSENRPENDVPEPPMPIADQ VSNDDRPEGSVEDEEKKESSLP KSFKRKISVVSATKGVPAAGNSD TEGGQPGRKRRWGASTATTQK KPSISITTESLKSIPDIKPLAQE AVVDLHADDSRISEDETERNGD DGTHDKGLKICRTVTQVVP AE GQENGQREEEEEKEPEAEPPV PPQVSVEVALPPAEHEVKKVT LGDTLTRRSISQKSGVSITIDD PVRTAQVPSPPRGKISNIVHISN LVRPFTLGQLKELLGRTGTLVE EAFWIDKIKSHCFVTYSTVEEA VATRTALHGVKWPQSNPKFLC ADYAEQDELDYHRGLLVDRPS ETKTEEQGIPLHPPPPPVQPP QHPRAEQREQERAVREQWAER EREMERRERTRSEREWDRDKV REGPRSRSRSDRRRKERAKSK EKKSEKKEKAQEPPAKLLDDL FRKTKAAPCIYWLPLTDSQIVQ KEAERAERAKEREKRRKEQEE EEQKEREKEAERERNRQLEREK RREHSRERDRERERERERDRGD RDRDRERDRERGRERDRDTK RHSRSRSRSTPVRDRGGRR
9931	40299	A	9992	1400	2959	
9932	40300	C	9993	169	430	

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9933	40301	A	9994	2	199	STSR/KMTELEEVTLNGKPLQA LRVTDLKAALQRLAKSGQK SALVKRLKGVRSRRCWGVGGE RTR
9934	40302	A	9995	1	4033	MWRRKHPRTSGGTRGVLSGNR GVEYGSGRGHLGTFEGRWRKL PKMPEAVGTDPTSRKMAELEE VTLDGKPLQALRVTDLKAALQ RGLAKSGQKSALVKRLKGA LMLNLQKHSTPHAAFQPN SQIG EEMSQNSFIKQYLEKQ QELLRLEREAREAAELEE ASA ESEDE MIHPEGVASLL PPDFQSSLERPE LELSRH SPRKSSSISEEKGDSDD EKPRKGERRSSRVQARA AKLS EGSQPAEEEEQETP
9935	40303	A	9996	3	6305	ELEEVTLDGKPLQALRVTDL KAALEQRLAKSGQKSALVK RLKGALMLNLQKHSAPHA AFQPN SQIGEEMSQNSFIK QYLEKQ QELLSSRLERE AREAAELEGKSS SISEEK GDSDDDKPRKGERRSS RVQARA AAKLAEGSQPA EEEE DQETPSRNLVRADR NLKTEEE EEEEEEEEDD EEEGDDEGQK SREAPIL KEFKEEGEEIPRVKPE EMMDERPKTRSQEVE LRRGG RFTRSQEEARK SHL
9936	40304	B	9997	99	332	
9937	40305	A	9998	3	236	YIFTILNTLQGVFILLFGCLMDR KIQEALRKRFCAQAPS/SHHLP GELLPSDPQLCIQEHVRRHSMA LLRGHGHSQKL
9938	40306	B	9999	1	3099	
9939	40307	A	10000	355	858	RASSAAWGSPSRKTSASSAFSSS CWSSS*QS*SYSSSSLSHGQGE RERQEGPEGRPAAVPHREQRG AEERLEHHPG*DAMLWCH*LH RLVPSAGGEHGSRPLLHGELPG LRAQRHHAFVENGLL*KGEDV VR*Q*ARAGHGDDVHPHHADP GHGLLDPLPAHPPDW

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9940	40308	A	10001	3	1478	GRALTSRRRACQGASEAAGSPA QVTTSTGHHQHRSHQHRSPPA QVTTSTGHHQHRSPAQATTSTG HHQHRPPPAQVTTSTGHHQHR SPAQATTSTGHHQHRSH\HTGH HQHRS/HTSTGHHQHRSPAQAT TSTGHHQHRPPPAQVTTSTGHH QH\GHQHRPPPA/HGHHQHSSPP A/HGHHQHRPPPA/HGHHQH\G HHQHSSPPA/HGHHQHR\HHQ\P GHHQHRSP/HSTAHQH\GHHQ HSSPPA/HGHHQH\GHQH\GHQH SSPYQH\GHQHHRPPPA/HGHH QHRSH\HTAHHQHRSHQH\GH Q\PGHHQHRSPAQATTSTGHTS TGHHQHRP/HTSTGHH\HTGHH QHRSHQHRSPPAQATTSTAH QHSS/HTSTGHHQHRSP/HSTGH HQHSSPPA/HGHHQHSSPPAQA TTSTGHHQHRESPAVAAAADPS ALSAARRGSPGAAAPQSRGTR GGGAPAKWWGSALGLGWAGR ARARLGRPLRPILGAMPAPRT PRERREHGEVE
9941	40309	A	10002	5	341	PPRRRGQKRRQK/REEGERERG ERKRPRDRKEERKG/RRTKRQG GTETRESRPNGDGPQAKRKKQ TAGQREEREQQRSSRQRGAA ERERGRETTHTCLLVPCWWEP NGRLCL
9942	40310	A	10003	1	582	MLAQRGGRSVVQCIASVSKLSV TQRSFVTLMDEEALGNCGGSS GSQTCEKAVCIHNLPFLTSHAF QSGFPPHQSPASLPKMVSDAQ TARLSLESMRELGFHISEAGFP APVSGYEHNSRPGVMPSGTS HWKQRSQKVEDNRTEMVKGIO GDTVKHQQHLPRINGN*LAYM TAKSRTWLPVQQDPGPQTI
9943	40311	A	10004	1	332	MEYYAAIKNDEFMSFVGTWM KLETHLSKLSQGQKTKHHIFSLI EAQAQVSPPPPYPAPQELTQPL LQQPRAPEAPAQ/PPGSLLTAT VRLSASPGPLIFDQLLPRCGF

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9944	40312	A	10005	1	1108	MLAQRGGRSVVQCIASVSKLSV TQRSFVTLIMDEEALGNCGGSS GSQTCEKAVCIHNLPFLTSHAF QSGFPPHQSPASLPKMVSDAQ TARLSLESMRELGFHISESAGFP APVSGYEHNSPSLSTTNLSGPSR RRQPPVSPLTSPGPEAHQGFSR QLSSTSPLAPYPTSQMVSSDRS QLSFLPTEAQAQVSPPPYPAPQ ELTQPLLQQPRAPEAPAQPPQA ASSLPQSDFQLPAQGSSLTNFF PDVGFDQQSMRPGPCLSSGTAS GATGSRLEQDSFHLRPSYSNC GSLPNTILPEDSSTSLFKDLNSA LAGLPEVSLDVDTPFPLEEELQI EPLSLDGRHMLSDSSMGLLDP SVEETFRADRL
9945	40313	A	10006	1	691	MRERARPPRGCLAPPLPPG/E/S GADGQPAPRGRGTAGG/ELAA AGCGARAAMHRGAVPSAEPVP ASP/DGRWQWAGEGRPCNAAG GSRT/GAGCGWPAPAGWGPAP SSAASCPASGGATHRGASAAPG GGGGGRAP/GPDALEQRRAGAP PNAPGTPGSPEESSLRMRRESA AGAPAVGMAAATSLGQALGPR VPRSPYRTAVVLSSRSAFGYFSL ITLARYTLGCLSHSDITLFEC
9946	40314	A	10007	1	1065	MADKRAGTPEAAARPPGLAR EGDARTVPAARAREAGGRGSL HPAAGPGTAFPSGRGEAATA TTPSLENGRVRDEAPETCGAEG LGTRAGASEKAEDANKEEGAIF KKEPAEEVEKQQEGEEKQEVA AEAQEGPR/PPEPWCPN/C/MDP LEAIQWEAEAVSAQADRAYLP LERRFGRMHRLYLARRSFIIQNI PGFWVTAFLNHPQLSAMISPRD EDMLCYLMNLEVRELHRSRTG CKFKFRFWSNPYFQNKVIVKEY ECRASGRVVSIAIRIRWHWGQE PPALVHRNRDTRVSFFSWFSQH SLPEADRVAQIIKDDLWPNPLQ YYLLGDRPCRARGGLARWPTE TPSRPYGFQSG
9947	40315	A	10008	2	433	
9948	40316	A	10009	125	289	TRKSGCLKIRFHVFLFLYRNPG MDVADAYVTFVRHSQDVLRD KVNE\EMY\ERLF
9949	40317	A	10010	1	774	
9950	40318	A	10011	1	1749	

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9951	40319	A	10012	1	1175	MFASCYMRNIPKRVIEFGTCLW RTCKNCLSSLEFKMPFPPHPRSV TYNLKQERCRLSLDASLSCMLS IEDSQIPNTRLECCCKGLSRCTSV ASTCPLVTFSCFLFSPKMEQYS KDDSEKTLKGWFSFGQVFVLD EYCARNGVRGCHRHLCYLRDL LERAENGAMIDPTLLHYSFAFC ASHVHGNSQQMHVYLSGLPPN TDPEGSKTPSPPEPEAKKDTKK ESKKRKDSKTQANQELKRSLTS NLP/ICEPTQ/W*TFPKYQIYQLT SL*ASHKCLLFRHRHGWLLY/ID ADNGSGTSEDLFWKLDALQTFI RDLHWPEEEFGKHLEQRLKLM ASDMIESCVRTRVIAFEVKLQK TSSIQQIFRVPQFNMAPCFNVM GLMAKGSIQPKLCSMEMGQE
9952	40320	A	10013	1	3951	MLDPSSSEEESEIVEEESGKEV LGSAPSGARLSPSRTSEGSAGSA GLGGGGAGAGAGVGAGGGGG SGASSGGGAGGLQPSSRAGGG RPSSPSPSVVSEKEKEELERLQK EEEERKKRLQLYVFMRCIAYP FNAKQPTDMARRQQKISKQQL QTVKDRFQAFNLGETQIMADE AFMNAVQSYEVLKSDRVAR MVQSGGCSANDSREVFKKHIE KRVRSLEIDGLSKETVLSSWM AKFDAIYRGEEDPRKQQ
9953	40321	A	10014	1	457	VAAVAATALKGGGARNARVL RGIFAGATA\NKAS\HNRTRALQ N/HTASPEGKEEPELIPGTGKY IPQKRGAKNPHECNGNLPWAIG FPCGILLFDPSPKR/RKLDKDRV\ KQMKARQNMVSN TG\YES\Q RFRASSQS\APSP\DVGSGVSGV QT
9954	40322	A	10015	464	863	TPAAVESSPSIPLAPRLLYTG*PL QP/GPRGQGCVPRIVPCCPKP/V CAPRPPWPRRSQRLRSAGLSPL CAAAAPPVPAGSHGTPGRVWA PLSNSACCTCCRHPS*LHPGTLD PGRWQAR*GPALPRGPLPGSPP
9955	40323	A	10016	1	300	PKILVGASKVVLL\SAHKLFIG DTLSRQAK\AVDVASRVTHYSN LL\CDFL\QGIVATTKAAALQYP IAFPGPKDMVERVKELGHS\TQ QFRRVLGQLAAA

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9956	40324	A	10017	3	291	ARI/VFAIISFYFMPCCPLTA/SSF YLLSGLLDAFDGHALALLIKFC VRGSESHKMIDLSGNP/VLRJYY TS/RVGSVGLFR/MGLWVTAPIA LLKSLISVIT
9957	40325	A	10018	1	344	VLIRARLSDNPAVRGSESHKMI DLFCYPVLRJYYTSRPAFTLCA GNELFYCLLYLFHFSEGPLVGS VGLFRMGLWVTAPIALLKSLIS VIHLITAARNMAVALGRQQDRA KKK
9958	40326	A	10019	1	469	MVRSCFVDDRRKRCNFRQAS EVLNEYFYSHVSNPYHSEEAKE ELAKKCGITVSQVSNRFGNKKI RYKKNIGEFQEEANIYAVKTAV SVTQGGHSSTSISPTPPSCAGCG GSFNISGSGDMFLGMPGLNGDS YSASQALES GDASPAQSEMPK MGT
9959	40327	A	10020	232	1728	PGGGRGGAGRGPQGPAMPDE RLLGPPPPGGGRGGLGLVSGEP GGPGEPPGGGDPGGSGGVPG GRGKQDIGDILQQIMTIDQSLD EAQGQKTPPLNCPARKKPVLF GRGEIKEKTGLSIRSSQEEEPVD PQLMRLDNMLLAEGVAGPEKG GGSAAAAAAAAASGGGVSPDN SIEHSDYRSKLAQIRHIYHSELE KYEQACNEFTTHVMNLLREQS RTRPVAPKEMERMVSIHRKFS AIQMQLKQSTCEAMMLRSR LDARRKRRNFSRQATEVLNEYF YSHLSNPYPSEEAKEELAKKCG ITVSQVSNRFGNKKIRYKKNIG KFQEEANIYAVKTAVSVTQGG HSSTSSPTPPSSAGSGGSFNISGS GDMFLGMPGLNGDSYSASQ/V WESLRHSMGARGVIGG*TFGG RARCYSPIEMRANGSWQEAV TPSSVTSPTEGPGSVHSDTSNLI LPLRVTGVGALTRLEEDAGFQ RTNPNTGEAQDREGPMGSSPP
9960	40328	A	10021	337	830	IPRLPGSIQLSFVGAFGQTSKSLF FLCVFILLLFQFFLCVYVPMCT E/RRINIPGPGGMCLSVKGRC EPVLKEFGFAWPESLNCSEKFP QNDHNHMCMEGPGDEEVPLPH KTPIQPGEECHSVGTNSDQYIW VKRSLNCVLKC/GYDACLYSRS AQEVTNDIWMA

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9961	40329	A	10022	1	1561	MAWRGAGPSVPGAPGGVGLSL GLLLQLLLLLLGPARGFGDEEER RCDPIRISMCQNLYNVTKMPN LVGHELQTDALQLTFTPLIQ YGCSSQLQFFLCSGYVPMGTEK INIPGPCGGMCLSVKRRRCETPS LKAEFGFA\WPESLNCCK/YPHP QND\HNPHVPWKPGDEEVPLP HKTPIQPAGECHSVGTNSDQYI WVKRSLNCVLKCGYDAGLYSR SAKEFTDIWMAVWASLCFISTA FTVLTFLLIDSCRFSYPERPIIFLS MCYNIYSIAYIVRLTVGRERISC DFEEAAEPVLIQEGKNTGCAII FLLMYFFGMASSIWWVILTLT WFLAAGLKWGHEAIEMHSSYF HIAAWAIPPVKTIVILIMRLVDA DELTGLCYVGNQNLDAITGFV VAPLFTYLVIGTLFIAAGLVALF KIRSNLQKDGTKTDKLERLMV KIGVFSVLYTVPATCVIACYFY EISNWALFRYSADDSNMAVEM LKIFMSLLVGITSGMWIWSAKT LHTWQKCSNRLVNYT
9962	40330	A	10023	496	664	FYKAVPSIHQLDVPQTHQP*ST GLVQKVYSRSKHVSL*PKYYY VQLVPKLDHLIFY
9963	40331	A	10024	1	954	
9964	40332	A	10025	127	481	GRTREATWRVYSVAVGVSRSQ IIRIAREFADNADKTHGRSMIIV GAGLNHWYHLDNMNYRGLINM LIFCGCVGQSGG/GWAHYVGQ EKLRPQTGWQPGVCLDWQRPA RHMNSTSYFLLVP
9965	40333	B	10026	161	234	
9966	40334	A	10027	3	199	DDFLDLAESPNASDTESSDEIPL KAGPGTLIMATGVQDFNRTEFD RLNAIKGHLE\ALLEKHFFT
9967	40335	A	10028	37	455	LRTHLLPRLSQSSPVSSLPRALL RPPGQLELWAVPAGPGLLAA DASQNLQHMELASQSRGRV DMSDGH LAVLSPIEEELRKLRE ETNAEMLRQELDRERQRRMEL EQKVQEV LKARTEEQMAQQPP KGQAQASNGA

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9968	40336	A	10029	1	1721	DKIRFRGHRDDFLDLAESPNA SDTECSDEIPLKVPRTSPRDSEE LRDPAGPGTLIMATGVQDFNRT EFDRLNEIKGHLEIALLEKHFLQ EELRKLREETNAEMLRQELDRE RQRRMELEQKVQEVVKARTEE QMAQQPPKGQAQASNGAERRS QGLSSRLQKWFYERFGEYVED FRFQPEENTVETEEPLSARRLTE NMRRLKRGAKPVTNFKNLASA LSDWYSVYTSIAIAFTVYMNNAV WHGWAIPFLFLAILRLSLNYLI ARGWRIQWSIVPEVSEPVEPPK EDLTVSEKFQLVLDVAQKAQN LFGKMADILEKIKNLFMWVQP EITQKLYVALWAAFLASCFFPY RLVGLAVGLYAGIKFFLIDFIK RCPLRLAKYDTPYIHWRSPLTDP QLKERSSAAVSRLQTSSRSY VPSAPAGLGKEEDAGRFHSTKK GNFHEIFNL TENERPLAVCENG WRCCLINRDRKMPTDYIRNGV LYVTENYLCFESSKSGSSKRNK VIKLVDITDIQKYKVLVLPGSG MGIAVSTPSTQKPLVFGAMVH RDEAFETILSQYIKITSAASGG
9969	40337	A	10030	18	573	
9970	40338	C	10031	71	205	
9971	40339	C	10032	190	243	
9972	40340	A	10033	18	283	
9973	40341	A	10034	1	190	
9974	40342	A	10035	1	135	
9975	40343	C	10036	90	137	
9976	40344	B	10037	272	560	
9977	40345	A	10038	3	422	
9978	40346	A	10039	205	1090	
9979	40347	A	10040	1	2142	

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9980	40348	A	10041	15	1524	FPGRRFRAEGERTECAEPPRDEP PADGALKRAEELKTQANDYFK AKDYENAIKFYSQAIELNPSNAI YYGNRSLVYLRTECYGYSL*D ATRAIELDKKYIMGYRRAVAS NMALGKFRAALRDYETVVKV KPHDKDAKMKYQECNKIVKP KAFERAIAGDEHKRSVVDSLDI ESMTIEDEYS*PKLEDGKVTISF MKELMQWYKDQKKLHRKCAY QILVQVKEVLSKLSTLVETTLK ETEKITVCGDTHGQFYDLLNIFE LNGLPSETNPYIFNGDFVDRGSF SVEVILTLFGFKLLYPDFHLLR GNHETDNMNQIYGFEGEVKA KYTAQMYELFSEVFEWLPLAQ CINGKVLIMHGGLFSEDGVTLD DIRKIERNRQPPDSGPMC\DLLW SDPQPQNGRSISKRGVTCQFGP DVTKAFLEENLDYIIRSHEVK AEGYEV AHGGRCVTVFSAPNY CDQMGNKAS\YIHLQG\SDLRP\ QFHQFTAVPHPNVK\PMAYAN
9981	40349	A	10042	94	188	VIEHLVSQDGLDFL/NLVICPPR PPKVLGLQA
9982	40350	A	10043	419	495	EPTNENSPIALS R*VNSQKISMK AV
9983	40351	A	10044	1	265	EMESRSIARMECSGSISAHCKL RLPGSHHSPASVSRVAGTTGTC HHARLIFLYF/LLETGFHCVSHD GLHLL/NLVICPPRPPKVLGLQA
9984	40352	A	10045	3	706	ADAWAWPHC/CTVLL*CLGFA GVLFGWPSLVFVFKNEDYFKD LCGPDAGPIGNATGQADCKAQ DERFSLIFTLGSFMNNFMTFPTG YIFDRFKTTVARLIAIFFYTTAT LIIAFTSAGSAVLLFLAMPMLTI GGILFLITNLQIGNLFGQHRSTII TLYNGAFDSSSAVFLIHKLLYEK GISLR/VLLHLHLCLQYLACSTH FPPDAPGAHPIPTAPQLQLWPV PWEWHHKGREGNS

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9985	40353	A	10046	1	1413	MKRGNRSRRRRRLSENNGVF HIESFAQHPKDEKSRKLLGPIEH WTFVVEKGKGKPEETGTVSMV LEDGEVEADIKQGSVVGCCNV PPDAARERAEKAYMDGEQPTLI LLLWDLKKQIPVHKGTHSVGR HQTELLPNNGGGVVRFFYTTAT LIIAFTSAGSAVLLFLAMPMLTI GGILFLITNLQIGNLFGQHRSTII TLYNGAFDSSSAVFLIKLLYEK GISLRASFIFISVCSTWHVARTF LLMPRGHIPYPNPNYSYGLCP GNGTTKEEKETAHEHENRELQSK EFLSAKEVSTYTNAFAFTQFGV LCAPWNGLLMDRLKQKYQKE ARKTGSSTLAVALCSTVPSLAL TSLLCLGFALCASVPILPLQYLT FILQVISRSFLYGSNGRFLTALF PSEHFGKLFGLVMALSA\VVSL LQFPIFTLIKGSLLQNDPFYVNV MFMLAILLTFLPPLSGISGMPYL
9986	40354	B	10047	316	395	
9987	40355	A	10048	1	1614	RMQQQAVMHYMQQQQQQQQ QQLGGPPTPAINTPVHFQSPPPV PGEVLKVG PVLACPPPCPH*SQ PPLEPLPYLSETYGNKFAAHISP AQALRNPHQPPQGCEDTCC PPPLATVLP/ISPMAMLIHIGSNPE REVSEELASGHAACRARAHC ASETMPNTVLLARVGWVCKGS REGGTHCGSEPGESGVTSSSCP ADLTQKRELGTASLYPCAFY PTPPSFSPSLPAAPLPASLFLVLT WAG*KANDL*/VRFLRGRVMG LGGQQLTRLSALLQKSRELEN HSRREMTNKQLWLRIQVWS* TWTSVLTLTLNLAPGPKGQYFR MFCFGNKQSSASLSNTYQLEVL FCETLILAPTLLAPSSMAHLEL ALKAIVTLKVPHVTSVQWAWP MQAHSTSTLTSLAQQVVKQEL PSEEGPGEALMLGAEPDPEPL PALPPQAPLPLPTQPPSPFHLD FSHLSFGGREDEGPPGYPEPLA PGHGSPFPLSKKDLMLLLDD SLLPLASDPLLSTMSPEASKASS RRSSFSMEEGDVL

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9988	40356	A	10049	1	1651	GGVTAGARAPARGSVTAEEAA RAGRGSGRGADGGREGRTGRA SLVARGSRPGAGGGHSLRAR HPNLRQVAGA/GGARAADRLT FRAREPAPAATMASRIGLRMQL MREQAQQEEQRERMQQQAVM HYMQQQQQQQQQQLGGPPTP AINTPVHFAQSPPPVPGEVVKVQS YLENPTSYHLQQSQHQKVREY LSETYGNKFAAAHISPAQVALR NPHQPPPQGCELDTCCPPPLAT VLPISPMAMLHIGSNPERELDD VIDNIMRL\TMSLGYINPEMQM PNTVLLARLPLSSSHLNVYSSDP QVTASLVGVTSSSCPADLTQKR ELTDAESRALAKERQKKDNHN LIERRRRFNINDRIKELGMLIPK ANDLDVRWNKGTILKASVDYI RRMQKDLQKSRELENHSRRL MTNKQLWLRIQELEMQARVHG LPTTSPSGMNMAELAQQVVVKQ ELPSEEGPGEALMLGA\EGPDP EPLPALHRQAPLPLPTQAPSPFH S/HWDFSHSLASFGGVRVDDWSP GLPRTPGAGAWLPIQPVQEGS GPHAPGRLTATAGL
9989	40357	A	10050	2	76	TPLAPPPKPVRRRLKSRR*IKAR S
9990	40358	A	10051	3	206	
9991	40359	A	10052	1	492	

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9992	40360	A	10053	2	2395	KQTELRRSGSRDVTGALLVAA AVASEAVGSLRVAEGGPNTLLL QVLR\SW\PWCNKATQTMEERK VKRRSPKSFSAHCTQVVNVQK KMSIPVASKS\TGFSNPASQVNFT SRPKVKKEVMK\EKTKPQGLEE GQRHSSQLPIQHSFLT\DVSRCS RKMERGLLSL\NDFHSWKTFK HFGN\EC\S\EQMEHVSGELQEK LARLNLELYGELEELPEDKRKT ASDS\NLDRLLSDCREMIPAFRT FLKRHDKTIVTKMLSLPELLLY PSRRFEEYLNLLYAVRLHTPAE HVDRGDLTTAIDQIKKYKGYID QTLSEVNRYLIRVQDVAQLHCC DEEISFSLSVACRSVDSASPESL PEMQNSQATLALLNQNLFHNKI TRYEH\HDLSLFLFNDALLVSS RGTSHTPFERTSKTTYQFIASVA LHRLLIENIPDSKYVKNAFILQG PKYKWICATEIEDDKFLWLSVL RNAIKSSMEKACGLVFTGQFMF DTMGMTN\LNQD\TAQALADG LMELSKEDSKCGKKIKDVEGN VIPTKCDPKTTFSLFMKERNVV EDNSWDTKSRLSKNDLNFEALI NLERILQKDSA\EKRARVVRELL QSERKYVQILEIVRDVYVAPLK AALSSNRAILSAANI\IIFCDILQ ILSLNRQFLDNLRDRLQEWGPA HCVGEIVTKFGSQLNTYTNNFN NYPVILKTIEKQWETFSSSSSS
9993	40361	A	10054	2	296	
9994	40362	A	10055	2	369	
9995	40363	B	10056	82	2483	
9996	40364	A	10057	2	3343	YDVVLDAIDTMQRVAWHIND MKRKHEHAVRLQEIQSLLTNW KGPDLTSYGELVLEGTFR\IQR KNERTLFLFDKLLLITKKRDDT FTYKAHILCGNMLLVEVIPKEP LSFSVFHYKNPKLQHTVQAKSQ QDKRLWVLHLKRLILENHA\KI PAKAKQAILEMDA\IHPGFCYS PEGGTKALFGSKEGSAPYRLRR KSEPSSRSHKVLKTSETAQDIQ KVSREEGSPQLSSARPSPAQRNS QPSSSTMISVLRAGG

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9997	40365	A	10058	32	483	LKGHADA VLAAGTEAVKCHLL LGRHLLRLMASSGIHHKIVN*R QYAKFSHG*IQKF**WQHRQQF RGKETEMASAVDLPVTLTETEA NFPPEYEKFWKTVENNPQDFTG WVYLLQYVEQENHLMAARKA FDRFFIHYPYCYGYWKKYADL
9998	40366	A	10059	1	1090	MRQKRKEEKELFHNKDCEKKE KNSWERMRTHTGTEKMASESET PTGAISQYKERMPVTHSPEIM DLSELRPFSKPEIALTEALRLLA DED/WDKQLHALEQLLASCYS GTRHTTSSFHCGHQGMWWHPE AWRC/LATAEPQREP GKSTISSH SSLWN*Q/LHSHKLQSVPLKV KNLRSGVSRAAVVCLSDLFTYL KKSMDQELDTTVKVLHKGAGE SNTFIREDVDKALRAMVNNVT PARAVVSLINGGQSHLHIAVRR CTAQLHSDVLEFMEPERILSAA KDMAERILPAAAKFAQDSSQET RYYGRKMLFFMMCHPNFEKM LEKYVPSKDLPIKDSVRNLQQ KVCCKSLFYKQLYKQSLFLHP
9999	40367	A	10060	36	203	
10000	40368	A	10061	1	798	MKFQYKEDHPFEYRKKEGEKI RKKYPDRVPVIVEKAPKAR/RA *SGQEEVPSAL*PYCCLP/DGAG LGTCS/HAMPEPPTHSMGTCAA RASPTSTTPCSTAPSPIDREVEQT TQGLRNASARRGTGRQLHLQ/S PVWDPLGEASWAPESSGNVESI SSSGIVNIPISTLCLAQGFSRFVN APIDTL YLAALVGPWRTFMSSS GIVNTPIGTLYLAQGMVHYHKS PFPTCLVQMSKIESLPKEKGAQ GVAAGLPSSLAPTCPPDPSPMK LHNN
10001	40369	A	10062	164	605	ALLKQHLRTVHRSAPPPIRGHCC VSSSWT*G/AGKLSLEHTEEPSD VPSHLLYRWSISSAITEVFQALA SS\IPPRSQ*MSTPRR\NESTRHSP GPSIEEVKECMQDDN*YLQGTS YAPAGSQSYSAKLCFQVLKRN TCPPEKPNPASER

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10002	40370	A	10063	3	2480	RPITGAEIVAIINSLPTKKSPGLD GFTAEFYQRYKEELVPFLCLKF QSIEKEGILPNSFYEASIIIPKPG RDTTKKENFRPISLMNIDAKILN KILANRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHINRT KDKNHMIIISIDAEKAFDKIQQ/R LHAKNS/RIN*VLM/ETYFKIIRA IYDKPIANIILNGQKLEAFPLKT GTRQGCPLSPLLFNIVLEVLR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS NFSKVSGYKINVQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTRDVKDLFKENYKPLLK EIKEDTNKWKNI PCSWVGRINI VKMAILPKVIYRFNAIPIKLPM FFTELEKTTLKFIWNQKRAHIA KSILSQKNKAGGITLPDFKLYY KATITKTAWYWYQNRDIDQW NRTEPSEITPHTYNCLIFDKPEK NKKWKGDSL FNKWCWENWLA ICRKLKLD PFLTPYTKINSRWIK DLNVRPKTIKTLEENLGITIQNI GMGKDFMSKTPKAMATKDKID KWDLIKLSFCTAKETTIRVNR QPTKWEKIFATYSSDKGLISRIY NELNQIYKKKTNNPIKKWAKD MNRHFSKEDIYAAKHKMKCS SSLAIEMQIKTTMRYHLTPVR MAIIKKS GNNRCWRGCGEIGTL LHCWWDCKLVQPLWKS VWR
10003	40371	A	10064	317	582	STVCCFLLRFIGGGFRHIPLSVD LWIHYIKILKETLDPGDPETNNT IRGYVEH*Y*NVFYDINNYSDV DNRAHES*AGSLTSIPLKK
10004	40372	A	10065	41	434	GDLQPTAALWEPLSGLAKAGA RSLSLQGGVGGEARARTRAAR GACGPAAAPGGHGLGGHALGA AGR/RLALGRLGTCSLPCLSLP PSPWAPVPPEPPR*VPPHAPGRP VPSATQRLRSAGAQRRTGRQL
10005	40373	A	10066	67	459	LRDCKYTHRHCVSSSRFINTPIN TLCLAQGL*VHQSTLCI*LLWV GGLGGNFCVQYSVSN*SDGDV ENLCI*LRDCKCTNQHPVKTG FGSTNQQDVGWGQIKRIKAGLP EPASGNSLGSPTLWELCSLQ

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10006	40374	A	10067	2481	2882	IPQGNRYVIARNAKTQRGGNLT LTKPS/GIGRRGENSSISSWQRQ QKGGKETGSQRKRQRGRDKKL ERKRDRHRSQREGKKERKRQR RSQRERWK**RKNSVPIPLKAR VNFSLPTQGNSLLDLNPYLPLK QLKK
10007	40375	B	10068	52	5199	
10008	40376	A	10069	1510	2454	
10009	40377	B	10070	97	3414	
10010	40378	A	10071	164	620	PPTGCGTGPIGCSGPGTGVPVP VAPFPQEGARTQPGSAGAPG ARGLRRAETLVALGAVGPGLP TPPPPPAPQSQAPGGPEAQPF GSRVCVLASCCAHRPRPAPSAP PAPPPESTVRPAPPTRPGESS YSSISHAFTATNPFPGTA
10011	40379	A	10072	1	513	MATLAGEGRPAGWVPWISLLA VGVLIIWKLWPAPPIGGELQFA FVCFLGNVYEA FEHWKRLN LLCRSEAAMKK/HATRLWINLI SILHHQLGEIPADFFVDIVSQHN FLTSTLQVFFSSACSIATLRL KKA EK FQAHLTKKFRWDFAE PEDCAPVVEELPEGIEMG
10012	40380	A	10073	1	1642	MDYIRDTLTTAAPSPPRRLGPP PGEQPPSGSGHVRPPGARPPHR GGGRGGGGDPAAPPARGGGG GGKARPPGGGAAPCEPGCQCR APMVSVSSEHPLYNRVKTGQI ANCALPCHNPFFSQDERAFTVF WIGLWSVLCFVSTFATVSTFLID MERFKYPERPIIFLSACYLFVSV GYLVRLVAGHEKVACSGGAPG AGGAGGAGGAAAGAGAAGAG AGGPGGRGEYEELGAVEQHVR YETTGPA LCTVVFLLVYFFGMA SSIWWVILSLTWFLAAGMKWG NEA IAGYSQYFHAAWLVPV KSI AVLALSSVDGDPVAGICYV GNQSLDNLRGFVLAPLVIYLFIG TMFLLAGFVSLFRIRSVIKQD GPTKTHKLEKLMIRLGLFTVLY TVPAAVVVACLFYEQHNRPRW EATHNCPCLRDLPDQARRPD YAVFMLKYFMCLVVGITSGVW VWSGKTLESWRS LCTRCCWAS KGA AVGGGAGATAAGGGGGP GGGGGGPGGGGGPGGGGSL YSDVSTGLTWRSGTASSVSYP

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10013	40381	A	10074	3	475	HSSLNSVDKARALEADNGELE VNIRDWYQKQGPASRDYSHY YTTIQDLRDKILGATIENSRLV QIDNARLAADDFRTKFETEHAL RMSVEADINGLRRVLDELTLAR TDLEMHIEGLKEELAYLKKNHE EEISTLRGQVGGQVTV*VDSAP GTDL
10014	40382	A	10075	39	1323	NGMWSNWNPLIPQRWEEKFQS PSRHRGSSSRGVSLSSISGGYSGI LSGSNGLLAGNEKLTMHNLNN CLASYLDKVALEAANSKLEF GLSVWVLDEVTARTDLEAQI KGLKEELAYLKKKHEEEINALR GQVGDQVHILSDRQSQYEIMA KQNWKDAEAWFTSWTEELNQ EVTGHIEQLQISRSEVTDLQCTL QGLEIELHSQSVKAPLEGTLA ETEACFGAQLVQIQALISSIEAQ LGDVRADGEWQNQEYQRLLE QEIATYRSLLLEGQEDHYNLST SKVQIPECTVSNVPVASVCLQT LEPHSLASNPGSSTYSVTFGQYI NLSVSPFLLLEATIAGAKKAAT GNNSTQFSPPAERQLCIFTCPRT IPLTTASHAGSYGPKLVKYTSL RPLPMAAPTESNPALPSSRATA HRLLPAPGHFPSGL
10015	40383	B	10076	133	180	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10016	40384	A	10077	1	2182	MSVDKAELCGSLTTLWLQTFHV PSPCASPQDLSSGLAVAYVLNQ IDPSWFNEAWLQGISDPGPNW KLKVSNLKMLVRLSLVEYSQDV LAHPVSEEHLDPVSLIGEFSDPA ELGKLLQLVLGCAISCEKKQDH IQRIMTLEESVQHVVMEAIQEL MTKDTAP\DSLSPETYGNFDSQS RRYYFLSEEAEEGDELQQRCLD LERQLMLLSEEKQSLAQENAGL RERMGRPEGETPGLTAKKLLL LQSQLEQLQEENFRLESGREDE RLRCAELEREVAEL\QHRNQAL TSLAQEAQALKDEMDELQSS ERAGQLEATLTSCRRRLGELRE LRRQVRQLEERNAGHAERTQ LEDELRRAGSLRAQLEAQRQ VQELLGQRQEEAMKAEKWLFE CRNLEEKYESVTKEKERLLAER DSLREANEELRCAQLQPRGLTQ ADPSLDPTSTPVDNLAAEILPAE LRETLRLS/LLENKRLCRQEAA DRERQE/EKLQRHLEDANRRAR HG\LETQ\HRLNQQAAYSELRA QVEDLQKALQEQQGKTEDAISI LLKRKLEEHLQKLHEADLELQR KREYIEELEPPTDSSA\RRIEEL QHNLQKKDADLRAMEERYRR YVDKARMVMQTMPEKQRPAA GAPPELHSLRTQLRERDVRIH LEMDFEKSRSQREQEELLISA WYNMGMALQ\QRAGE\EPAPA
10017	40385	A	10078	1	687	
10018	40386	A	10079	1	1104	
10019	40387	A	10080	1	677	MAAAGGGGGGAAAAGRAYSF KVVLLGEGCVGKTSVLRYCE NKFNDKHITTLQASFLTCKLNI GGKRVNLAIWDTAGQERFHAL GPIYYRDSNGAILVYDITDEDSF QKVKNWVKELRKMLGM\ETCL CIVGNKIDLEKERHVS IQEAESY AESVGAKHYHTSAKQNKGIEE LFLDLCKRMIETAQVDERAKG NGSSQPGTARRGVQIIDDEPQA QTSGGGCCSSG
10020	40388	A	10081	1	1467	
10021	40389	A	10082	2	244	
10022	40390	A	10083	1	257	
10023	40391	A	10084	1	558	
10024	40392	B	10085	41	618	
10025	40393	A	10086	1	591	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10026	40394	A	10087	128	851	KMEKEKGNDGIPDQENSLDFS EHFNQLELLETHGHLIPTGTQSL WVGNSDEDEEQDDKNEEWYR LQEKKMEKDPSRLLLWAAEKN RLTTVRRLSEKATHVNTARDE DEYTPLHRAAYSGLDIVQELI AQGADVHAVTVDGWTPHSA CKWNNTRVASFLLQHDADINA QTKGLLTPHLAAGNRDSKDT LELLLMNRYVKPGLKNNLEET AFDIARRTSIYHYLFEIVEGCTN
10027	40395	A	10088	2	264	NKQPIWIPSRHLKPYHEPDAKE EIPGGS*GPTSCSHVETDAEEDP NCHEQHLSNTATHLGTDQEAVI DGRRKPEESRTTSHICRCRS
10028	40396	A	10089	2	461	
10029	40397	A	10090	2	749	
10030	40398	B	10091	1	1077	
10031	40399	A	10092	1	1114	MPQNSLEECALELGKKS LQEN VNNFPKTKLFQFLKLTNWILPKI TKFKPIEGAENVFTDGSSNGKA SYFGLKGKVFQTPYTAAQKVE LVAVIEVLTA FDM PVSMISDST YVVHSTQLTENAQLRLHTDEQ LMTLFSQLQTAVRCFAVMGIP ASRKTDNVPGYTIQTLATFFSM WNIKHITGIPYNSQGQAI VGRIN LSLKQRLQKQKEGNREYRTPQ MQLNLALLALIFLSLSKGQMLS AAEQHLQKPPAKTEAEQLIWW RDTKTRSWEIGKIITCGRGYAC VSPGQNQQPIWTPSRHLKPYHE PDAK\KRFREDPEDPPSCSHVKT DAEEDPNCHEQHPSNTAIHLRS DQEAVTDGRRKPEESGTTSHNE
10032	40400	A	10093	239	783	RRAPGTAPDAGPELRS LHNLL GPACIFLRKGF AENRQPVQLRE AFREFDKDKDGYINCRDLGNC MRTMGYMPTEMELIELSQQIN MNLGGHVDFDDFVELMGPKLL AETADMIGVKELRDAFREFDT NGDGEISTSELREAMRKLLGHQ VGHRDIEEIIRDVDLNGDGRVD FEAPFPGSSN
10033	40401	A	10094	1	304	
10034	40402	A	10095	3	154	
10035	40403	B	10096	126	251	
10036	40404	B	10097	122	2916	

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10037	40405	A	10098	3	2433	LAELSSLSVLRLSHNSISHIAEG AFKGLRSLRVLDLDHNEISGTIE DTSGAFSGLDLSKLTFLGKNIK SVAKRAFSGLEGLEHLNLGGN AIRSVQFDAFVKMKNLKEHIS SDSFLCDCQLKWLPWLIGRML QAFVTATCAHPESLKGQSIFSVP PESFVCDDFLKPQIITQPETTMA MVGKDIRFTCSAASSSSSPMTF AWKKDNEVLTNADMFVHV HAQDGEVMEYTTILHLRQVTF GHEGRYQCVTNHFSTYSHKA RLTVNVLPSTKTPHDITIRTTT MARLECAATGHPNPQIAWQKD GGTDFPAARERRMHVMPDDD VFFITDVKIDDAGVYSCTAONS AGSISANATLTVLETPSLVPLE DRVVSGETVALQCKATGNPP PRITWFKGDRPLSLTERHHLTP DNQLLVVQNVVAEDAGRYTCE MSNTLGTERAHSQSLVLPAAAG CRKDGTTVGIFTIAVSSIVLTS LVWVCIIYQTRKKSEEYSVTNT DETVPDPVPSYLSSQGTLSDR QETVVRTEGGPQANGHIESNGK ASVTVKQSSAVTVSLGAGGGL QVFTGQVPGIRWGKLGEVEGG VCPRDASHFPEPDTHSVACRQP KLCAGSAYHKEPWKAMEKAE GTPGPHKMEHGGRVVCSDCNT EVDCYSRGQAFHPQPVSRSQAQ PSAPNGPEPGSDQEHSPHHQC
10038	40406	A	10099	1	164	
10039	40407	A	10100	368	566	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10040	40408	A	10101	3	1160	RDQRGYRDDRSPAREPGDVSA RTRSGGGGGRSATTAMPPVPN GNLHQHDPQDLRHNGNVVVA GRPSCSRGPRRAIQKPQAGGR RSGRGPAAGGLCLQPPDGCTC VPEEPPVPPMDWEALEKHLA LQFREQEVNRNQ\QARTNSTSA QKNERESIRQKLALGSFFDDGP GIYTSCSKSGKPSLSSRLQSGM NLQICFVNDGASDKDSDADDS KTETSLDTPLSPMSKQSSSYS\D RDTT\EEEESESLGWTWDFLYKG KRNLQAEAKMALAMAKPMAK MQVEVEKQNRKKSPVADLLPH MPHISECLMKRSLKPTDLRD\LI MGQLQVIVNDFISQ\IKSLNEEW VQLLL\QDELHTEQDAMLVDIE DLTRHAESQKQKMAEKMPAK
10041	40409	A	10102	1	506	RGPRTPEQDPCCPRAAAGARPS GPG/QDLPRRLRPGSPGAPGAG GGAGTAAGRKGPLPEEAAAD GAWRLGEGWAAASEEPAPPGP HTSQRGASPPQPGWARAAGLS NQPTKDRIFGGSHKAAPQASAD SPTSLQCGAAGHCPKASRRALG DNPETEATSSLSPTEWLQ
10042	40410	A	10103	1	429	MGSRLNWMEVIPEQCTYLHVL KCMFFWNRQHRGGIQEKAALK QRTPRIFHEKNTPCYLLVQE*H RSNAFGEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEETLFSNM
10043	40411	A	10104	4	122	
10044	40412	A	10105	53	619	ILVWSIVPEGKILWGTKQQRD SRTQRLKKSPWRAKQSVWEE/ ERKKKNKEEKEEKEKEKEKK EKEKEKKRKKKKRKKKKKKK KKKKKKKKKKKKKEEEEE EDEEEEEEEEEKKKKEEKEEKV EKKKEEK/QEEKEEEN/EEEEK EEEEKEKSSSKYSLDSVPTL LISLWVILNTLPELLQPA
10045	40413	A	10106	2821	4680	
10046	40414	A	10107	18	1535	
10047	40415	A	10108	3	1494	
10048	40416	A	10109	3	617	
10049	40417	A	10110	3	1142	
10050	40418	B	10111	1	2151	
10051	40419	B	10112	1	1461	
10052	40420	A	10113	1	1248	
10053	40421	A	10114	2	1624	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10054	40422	A	10115	1	1416	
10055	40423	A	10116	1	2262	
10056	40424	A	10117	1	1791	
10057	40425	B	10118	1	1497	
10058	40426	B	10119	1	1599	
10059	40427	A	10120	1	1722	
10060	40428	A	10121	1	3168	
10061	40429	A	10122	1	1083	
10062	40430	A	10123	1	589	MGAIYDKPTANIILNGQKLEAF PLKTGIRQGCPLSLLLFNIVLEV LARAIRQEKEIKVIQVGKEEVK LSLFADDMIVYLEDPHISAPNLL KLISNFSKVSQYKINVQKSQAF LYTNNRQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLKEKEDTNKWKNIPCSWVG RINIVKMAILPKPYVES
10063	40431	A	10124	1	1566	
10064	40432	B	10125	1	2406	
10065	40433	A	10126	1	2478	
10066	40434	B	10127	69	1259	
10067	40435	B	10128	225	997	
10068	40436	A	10129	2	1124	
10069	40437	A	10130	1	2058	
10070	40438	A	10131	258	823	TLMQKSSAKYWQTESSTSKSL STMIKWASSLGCKAGSIYANQ* M*SSI/YTNNRQTESQIMSELPFT IASKRIKYLGIQLTRDVKDLFKE NYKPLLKEIKEDTNKWKNIPCS WVGRINIVKMAILPKVIYRFNAI PIKLPMFTFFTELEKTTLKFIRNQ KRACIAKSILSQTLEASRYLTS NYTTRLQ
10071	40439	A	10132	1	1512	
10072	40440	A	10133	1	992	
10073	40441	B	10134	1	2019	
10074	40442	A	10135	1	1203	
10075	40443	A	10136	1	1578	
10076	40444	A	10137	1	2956	
10077	40445	A	10138	1	1983	
10078	40446	A	10139	1	3156	
10079	40447	A	10140	1	3325	
10080	40448	A	10141	1	1870	
10081	40449	A	10142	1	1446	
10082	40450	A	10143	1	2310	
10083	40451	A	10144	1	1293	
10084	40452	A	10145	1	1038	
10085	40453	A	10146	1	1713	
10086	40454	A	10147	1	2271	
10087	40455	A	10148	1	3654	
10088	40456	A	10149	1090	1647	

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10089	40457	B	10150	1	1248	
10090	40458	A	10151	1	1884	
10091	40459	A	10152	1	1140	
10092	40460	B	10153	1	1545	
10093	40461	A	10154	1	3300	
10094	40462	A	10155	1	1824	
10095	40463	A	10156	1	1023	
10096	40464	A	10157	1	2169	
10097	40465	A	10158	1	2661	
10098	40466	A	10159	1	1104	
10099	40467	A	10160	1	1668	
10100	40468	A	10161	1	1945	
10101	40469	A	10162	1	3303	
10102	40470	A	10163	1	1382	
10103	40471	A	10164	1	399	MPPVDASRDLRELNPLSSYKAK PNEYLLLQVLFLNRNTKEGLI RLLARYPDDLQQTESQIMSELP FTIASKRIKYPGIQLTKDVEDLF KENYKPLLSK\KEDANKWKNIP CSWIGRINIVKMAVLPPKKKIWV
10104	40472	A	10165	1	2218	
10105	40473	B	10166	1	2562	
10106	40474	A	10167	1	3169	

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10107	40475	A	10168	1	2105	MKAEIKMFFETNENKDTTYQN LWDAFKAVCRGKFIALNAHKR KQERSKIDNLTSQLKELEKQEQ THSKASRRQEITKIRAELEKET QKTLQKINESRSWFFERINKIDR PLARLIKKKREKNQIDTIKNDK WDITDPTEIQTTIREYYKHLA NKLENLEEMDKFLDTYTLPRLN QEEVESLNRPTGSEIVAIINSLP TKKSPGPDGFTAIFYQRYKEEL VPFLKLQSIGKEGILPNSFYE ASIIIPKPGRDTTKKANFRPISL MNIDAKILNKILAKRIQQHIKKL IHHDQHINKAKDKNHMISIDAE KAFDKIQPFMLKTLNKLKIDG TYFKIIRAIYDKPTANIILNGQKL EAFPLKTGTRQGCPLSPLLFNIV LEVLARAIRQEKEIKGIQLGKEE VKLSLFADDMIVYLENPIVSAQ NLLKLISNFSKVSQYKINVQKS QAFLYTNNRQTESQIMSELPFTI ASKRIKYLGIQLTRDVKDLFK/E NYKPLLKEIKEDTNKWKNIPCS WVGRINIVKMAILPKGFCFRN HHQTGFSPAGANQRGPLAATLS GPGGEGQSAVARLTGEKKNHP GAQYANRLSPRVGRFINAAGTT GFPTGKRAVSATQLMDFADFG TTIKQDFRLLGQTSVDRLQLS QGQAVKGNQLLPVSLVKRKT LAPNTQTASPRALADSLMQLA RQVSRLESGQ
10108	40476	A	10169	1	1689	
10109	40477	A	10170	425	1333	
10110	40478	A	10171	1	2274	
10111	40479	A	10172	1	3828	
10112	40480	A	10173	3	3130	
10113	40481	A	10174	1	960	

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10114	40482	A	10175	746	2470	TLMQKSSIKYWQNESSSTSKSL STMIKWASSLGCKAWFNIRKSI KVIQHINRAKDKNHMIIISIDAEK AFDKIQPPFMLKTLNKLIGDGT YFKIIRAIYDKPTANIILNGQKLE AFPLKTGTRQGCPPLLFNIVL EVLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLIRNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLLKEN YKPILLKEIKEDTNKWKNIPCS WVGRINIVKMAILPKNWKKT LKFIWNQKRAHITKSILSQKNK AGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM LHTYNYLIFDKPEKNKQWGKD SLFNKWCWENWLAICRKLKLD PFLTPYTKINSKWIKDLNVRPK TIKTLEENLGITIQDIGMGKDFM SKTPKAMATKAKIDKWDLIKL KSFCTAKEATIRVNRQPTKWEK IFATYSSDKGLISRIYNELKQIY KKKTNNPIKKWVKDMNRHFA KEDIYAACKHMKKCSPSLAIRE MQIKTTMRYHLTPVRMAIIKKS
10115	40483	A	10176	1	3492	
10116	40484	A	10177	1	3139	
10117	40485	A	10178	637	2760	
10118	40486	A	10179	2	3932	
10119	40487	A	10180	1	1865	
10120	40488	A	10181	1	5754	
10121	40489	A	10182	959	1615	
10122	40490	A	10183	701	6973	
10123	40491	A	10184	3	3319	
10124	40492	A	10185	1	3296	
10125	40493	A	10186	1	2296	

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10126	40494	A	10187	1614	2615	TLMQKSSIKYWQTESSSTSKSL STMIKWASSLGMQGWFNICKSI NVIQHINRTKGNHMIISIDAEK AFDKIQPFLLKTLNKLIGDGT YLKIIRAIYDKPIANIILNGQKLT FEKFLPKIGTRQGCPLSPLLFNI VLEVLARAIRQEKEIKGIQLAKE EVKLSLFADDMIVYLENPVSV QNLLKLISNFSKVSGYKIYKIDV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKIENHKPLLKEIKEDTNKWKN IP\CSWVGGRINLVKMAIL\PKVI YRFNAIPIKL\PMTFFTELEKNYF KVHMEPKKEPVLPSQS
10127	40495	A	10188	141	401	
10128	40496	A	10189	1	156	MQFPKTKTKKKEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEGEE EKEEI
10129	40497	A	10190	1	1446	

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10130	40498	A	10191	272	2722	ETSCPLVRVHYAEAITGRCTAP EDEGSLGQKPPARRSNNRTEGA WGKRQLMSSP/STEPVCLTIEG QEIDFLLDTGAAFSVLISCPGRL SSTSVTIQGILGQPVTRYFSHLL SCNWETLLFSHAFLLMPERPTG LLGRDILAKAGAIHYMMNGNKL PICCPLEEGINPEVWALEGQFG RAKNAHPVQIRLKDPTTFPYQR QY/PLRPEAHKGLQNIVKHLKA QGLVRKCSSPCNTPILEVQRPRL VQDLRLINEAVISLYPVVNPYPT LLSQIPEEA EWFTVLDLKDAFF CVPLHSDSQFLFAFEDPTNHTS QLTWMVLPQGFRDSPHLFGQA LAKDLGHFSSPGTLVLQYVDDL LLATS*EALCQQATLDLLNFLA NQGYKVSMSKAQLCLQQVKY LGLILAKGTRALSKE*IQPILAY PRPKTLKQLREFLGITSFCRLWI PGYSETARPLYTLIKDTQRANT HLVEWESEAETAFKTLKQALV QAPGLSLPTGQNFSLYVTERAG IALGVLTQTRGTPQPV AHL SK ETDVVAKGWPHCLRVVAAVA VLVSEAIKIIQGKDLIVWTTHEV NGILGAKGSLWLSDNCLLRYQ ALLLEGVVLQICTCMALNPATF LPEDGEPIKHDCQQIIVQTYAAR DDLLEVPLTNPDLNLYTDGSSF VENGI/RKVSDVTILESKPLPPGT SAQLAELVALTWALELGKGR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10131	40499	A	10192	1	2529	MTQEPSAIMREVPEMVNILKGT GDIHNTEIQNDNGKVGMTKCM AKPKDELRLNKLILSESLESAQR QGVSKQEKVLQCRRAQDLQPT MPEPPIPSMGSCAARASPTSATP CSRAPSPTDHPTAAKCRMRMAR YWQAAPPAALVLDQLGEASW APESANLVGKWRTFVSSSGTA NAPISTLSKQTTGLYQSAGCGW GQNLGAKYRAPVGQLKATSTA ARLKTRVSGFLGKGSLLTPDSS ELGPLDPTDHTSQLTWTVLPQG FRDSPHLFGQALAQDLGHFSSP GTLILQYVDDLLLATSLEALCQ KATLDLLNFLANQGYKVSRLK AQLCLQSEIARPLYTLIKETQR ANTHLVVSEPEAVI/AFETLKQA LVHAPALSLPIGQNFSLYITERA GIALGDLTQTCGTTQPVAAYLS KEIDVVAKGWPHCLRVVAAVA ILVSEAIKIMQGKDLTVWTTTHD VNGILGAKGSLWLSDNHLLRY QALLLEGLVLQICTCVALTAT FLPEDGEPIEHDCQQIIVQTYAT RDDLLEVPLTNPDNLTYTDGSS VVENGIRRAGYAIVSDVTILESK PLVPGTSAQLAELVALTRALEL GKGKIINVYTD SKYAYLILHAH AAIWKEWEFLTSGNPHGCHRE VMELLH MVQETKEVGVLHYQS HQNGKERGEQQRKQLAEASAA FLWGRALDLQPTMPEPPIPSMG
10132	40500	A	10193	1	197	
10133	40501	A	10194	1	259	
10134	40502	A	10195	1	295	
10135	40503	A	10196	1	439	
10136	40504	A	10197	1268	1420	
10137	40505	A	10198	1	389	
10138	40506	C	10199	1	298	
10139	40507	A	10200	2	90	
10140	40508	A	10201	3	1252	
10141	40509	A	10202	2	82	WMKLETSKLT*EQKTKHCMFS LISGS
10142	40510	A	10203	149	244	
10143	40511	A	10204	485	668	
10144	40512	B	10205	1	598	
10145	40513	C	10206	422	784	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10146	40514	A	10207	3	899	IYNHLIFDKPDKNKQWGK\DSL FNKWCWENWLAICRKLKLDPF LTPYTKINSRWIKDLNVRPKTIK TLEENLGNTIQDIGMGKDFMTK TPEAMATKAKIDKWDLIQLKSF CTANETVIRVNRQPTWEKIFAI IYPSDKGLISKIYKELYEKKTN LIKKWAKDMNRHFSKEDFYEA KKHEKSSSLLGQGVTGGCCCLP MNLLGTYRSEENPSEYQRRQLI KTLRVCKPSSSYFLTSDFLDTPS FSCEPTQTNELQGCSLRFVRAT AAGPVQVRGARLPSFAAPERGL AQIPRQMDSKI
10147	40515	A	10208	3	352	APGRRRLCQPAGGPGAWPGS AVPGSVSPAPDARSPISGPSRAL RRHLRPSAAGGPGLEIPTHDPH LPGVDYKEGRP\PSGKAGRGGP\ PGKGPSASGARALGVAAAA TPRASTL
10148	40516	A	10209	1	510	
10149	40517	A	10210	73	327	
10150	40518	A	10211	1	957	MWSTCKLHGQGAKYILCAEEL SWGAASCLHGSTMSLTVV SMA CVG\AWPLMGQDKP/FLSARP STVVPRGGHVAF/RCHYRRGFN NFMLYK/EDRSHVPIFHGRIFQE S/FIMGPVTPAHAGTYRC/RGSR PHSLTGWSAPSNP/LVIMVTGN HRKP/SLLAHPGPLLKSGETVI/L QC/WLSA/PSDPLDIVIT/GWENP CLSHVL*S*SHS*ELPADDGEKH GQMQRPKTG*NPSSSWPSPT/ PSSKSGICR/HLHVLIGTSVVIFL FI/LLLFFLLYRWCSNKK\DSDE QDPQEVTYAQL/NHCVFIQRKIS RPSQR/PKTPLTDSVYTELPNA
10151	40519	A	10212	351	637	AWIGDMGLDWRYGLRVEISA WSGDMGLEWRYGL\REGMFN DTLRLIGEHHDGVS KANFSISR MKQDLAGTYRCYGSVTHSPYQ LSAPSDPLDIVII
10152	40520	A	10213	1	1314	
10153	40521	A	10214	1	1008	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10154	40522	A	10215	3	1080	GQDKPLLSAWPSLVVPLGHVIL RCHSYLGFNNFSLYKEGVHRKP SLLAHPGRLVKSEETVILQCWS DVRFEHFLHREGKFKDTLHLI GEHHDGVSKANFSIGPMMQDL AGTYRCYGSVTHSPYQLSAPSD PLDIVITGLYEKPSLSAQPGPTV LAGESVTLSCSSRSSYDMYHLS REGEAHERRFSAGPKVNGTFQ ADFPLGPATHGGTYRCFGSFRD SPYEWSNSSDPDLLSVTGNSRY LHALIGTSVVIIPFAILLFLLHR WCANKKNAAVMDQEPAGNRT VNSEDSDEQDHQEVSYA*LDH CVFTQREITRPSERPKTPPTDTS MYIELPNAEPRSKVVFPCPRAPQ
10155	40523	A	10216	3	1379	
10156	40524	A	10217	352	1825	
10157	40525	A	10218	1	1497	MGLEWRYGPGGADMDEWRY GPGVEMWVWSGDMGLEVEIR AWSGDMGLEWRYEPGDGDMG LEWRYGPGGGQDKPLLSTWPS LVVPPEHVTLRCHSNLGFNNFS LYKDDGVVPPELYNRIFWKSLE MGPVTPSHTGTYRCRGSHTHSP SGGSAPSNPLVIVVTGFRRKPSL LAHPGPLVKSEETVILQCWSDV MFEHFLHREGTFNHTLRLIGE HIDGVSKGNFSIGRMTQDLA GT YRCYGSVTHSPYQLSAPSDPLD IVITGLYEKPSLSAQPGPTVLAG ESVTLSCSSRSSYDMYHLSREG EAHERRLPAGPKVNRTFQADFP LDPATHGGTYRCFGSFRDSPYE WSKSSDPDLLSVTGNSNSWPS PTEPSSETGNPRHLHVLIGTSVV KLPFTILLFLLHRWCSNKKNA SVMDQGPAGNRTVNREDSDEQ DHQEVSYA*LDHCVFTQRKITP PSQRPKTPPTDSSMYIELPNAES RSKAVFCPRAPQSGLEGIF
10158	40526	B	10219	114	1944	

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10159	40527	A	10220	20	1138	AGARPPVCTGSTMSLMVIIIMAC VGFFLLQGA WPQEGVHRKPSF LALPGHLVKSEETVILQCWSDV MFEHLLHREGKFNNTLHLIGE HHDGVSKANFSIGPMMPVLG TYRCYGSVPHSPYQLSAPSDPL DMVIIIGLYEKPSLSAQPGPTVQ AGENVTLSCSSRSSYDMYHLSR EGEAHERRLPAVRSINGTFQAD FPLGPATHGGTYRCFGSFRDAP YEWSNSSDPLLVSVTGNPSNSW PSPTEPSSKTGNPRHLHVLIGTS VVKIPFTILLFFLLHRWCSDKKN AAVMDQEPAGNRTVNSEDSDE QDHQEVSYA*LDHCVFTQRKIT RPSEPKTPPTDTSMYIELPNAE PRSKVVFCPRAPQSGLEGIF
10160	40528	A	10221	1	1334	MSLMVVSMACVGLFLVQRAGP HMGQDKPFLSA WPSAVVPRG GHVTLRCHYRHRFNNFMPLYKE DRIHIPIFHGRIFQESFNMSPVTT AHAGNYTCRGSHPHSPTGWSA PSNPVIMVTGNHRKPSLLAHP GPLVKSGERVILQCWSDIMFEH FFLHKEGISKDPSRLVGQIHDG VSKANFSIGPMMQDLGTYRC YGSVTHSPYQLSAPSDPLDIVIT GLYEKPSLSAQPGPTVLAGEV TLSCSSRSSYDMYHLSREGEAH ERRFSAGPKVNGTFQADFP LGP ATHGGTYRCFGSFRDSPYEWSN SSDPLLVSVTGNPSNSWSPTEP SSETGNPRHLHVLIGTSVVIILFI LLLFFLLHRWCNKKNAAVM DQESAGNRTANSEDSDEQDPQ EVTYTQLNHCVFTQRKITRPSQ RPKTPPTDIIVYTELPNAESRSK
10161	40529	A	10222	50	492	RARHRVTRPSIRKHSGHIRRLC LTCSSGVFLQGLRAGSRGTGPG LRTGWRLSPRAPRRRLHTPSAS SP*CSQ*RGPSAGTAAGARRRW RCRGQLRHPAGTSPPGRRWTG TACGPPAAPPAPWHSSWSCPHS GAGPPWSPACRTASL

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10162	40530	A	10223	3	3159	QAEFAAASTTPALGSDGVRVT MDSALTARDRVGVQDFVLLN FTSEAAFIENLRRRFRENLIYTYI GPVLVSVNPYRDLQIYSRQHME RYRGVSFYEVPPHLFAVADTV YRALRTERRDQAVMISGESGA GKTEATKLLQFYAETCPAPQR GGAVRDRLQSNPVLEAFGNA KTLRNDNSSRFKYMVDVQFDF KGAPVGGHILSYLLEKSRVVHQ NHGERNFHIFYQLLEGGEEETL RRLGLERNPQSYLYLVK
10163	40531	A	10224	1	2810	MLNGCAHAHPFPTRILSECPRG MLRAGFHLNRREALPPSRSHIS AAVLAPGALLSWGPDHPLELY GLHSHQDPPTGYEGVKGAPVG GHILSYLLEKSRVVHQNHGERN FHIFYQLLEGGEEETLRRGLER NPQSYLYLVKGQCAKVSSINDK SDWKVVRKALTVIDFTEDEVE DILLSIVASVLHLGNIHFAANES NAQ\VTTENQ\VKYLTRLISVE GSTLREALTHRKIIAKGEELLSP LNLEQAAYARDA
10164	40532	A	10225	1	416	FRGVARQLRTSAMTMPVNGAH KDADLWSSHDKMLAQPLKDSD VEVYNIIKKESNRQRVGLELIAS ENFASRAVLEALGSCNNKYSE GYPGQ\GSPANFAVYTALVEPH GRIMGLDLPDGGHLTHGFMTD KKKISATSI
10165	40533	A	10226	135	840	GSPANF/AV/YTALVETHGCIMG LDLPDGGHLTHGFMTDKKKIS ATSIFFESMPYKGGPHNHTIAG VAVALKQAMTLEFEVYQHHV VANCRALEALTELGYQTVTG CSDKHLILVDLHSIKGTDGRRRA EKVLEACSIACNKNTCPDDRNT LRPSGLRLGNPALTSGLLEKG FQKVAHFIHRGIELTLQIQSNAG IRATLKEFKERLAGHKYQGCV QALQEEVESFTLFLPLPLPDF

[illegible]

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10170	40538	A	10231	73	393	RTQAPKLSQGGPRCIPPPKLCL MESMFSSPAEALQRVETGVPG LLTPLPDLGRSVALQFPDQLLG DAVAVAAARLEETTGSKMFI LG\ DTAYGCCVDVLGAEQAGA Q
10171	40539	B	10232	191	367	
10172	40540	A	10233	131	1681	RTQAPKLSQGGPRCIPPPKLCL MESMFSSPAEALQRETGVPG LLTPLPDL DGVYELERVAGFVR DLGCERVALQFPDQ L LGDAVA VAARLEE\TTG\SKMFI/LGVDT AYGCCVDVLGAEQAGA QALI HFGPACLSPPARPLVAFVLSST FCGLGTLCQDLWGPKPRPQSAC GAA\GEPACAHAEALATLLRP RYLDLLVSSPAFPQPVGSLSP MPLERFGRRFPLAPGRRLEEY AFYVGGSKASPD PDLDPDLSRL LLGWAPGQPFSSCCPD TGKTQD EGARAGGLRARRRYLVERARD ARVVGL\LAGTLGVAQHREAL AHLRNL\VQAAGKCSYVLALG RPTPAKLANFPEVDV FVLLACP LGALAPQLSGSFFQPI LAPCELE AACNPA WPPPG/LWVPHLTH/Y IADLLPGSPFHVALPPPESELWE TPDVSLITGDLRPPPAWKSSND HGSLALT PRPQLELAESSPAASF LSSRSWQGLEPRLGQTPVTEAV SGRRGIAIAYEDEGSG
10173	40541	A	10234	3	605	AAAREAAGRDMLAADLRCSLF ASALQSYKRDSVLRPPFASYAR GDCKDFEALLADASKLPNLKEL LQSSGDNPQTGPGDLVSLDFYP QKVL TN PQVQ/WECSFEKDSK S*LGLLTRLFLHRTSCLKLST/SD PANAKFYETKGERDLIYAFHGS RLENFHSHHNGLHCHLNKTS LF GEGTYLTSDLSLALIYSPHGHG WQH
10174	40542	A	10235	197	895	LGLLTRLFLHRTSCLKLST/SDP ANAKFYETKGERDLIYAFHGS RLENFHSHHNGLHCHLNKTS LF EGTYLTSDLSLALIYSPHGHGW QHSL LGPILSCVAVCEVIDHPD VKCQTKKKDSKEIDRRRARIKH SEGGDIPPKYFVVTNNQLLRVK YLLVYSQKPPKRASSQLSWFSS HWFTVMISLYLLLLLIVFCGLL ALQDRGLPQVCPQIPCGWRPPS EGSQVFETQPGL

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10175	40543	B	10236	1	1059	
10176	40544	B	10237	226	522	
10177	40545	A	10238	159	306	LGSGNLP*EINPLSSCSLFREEDP PTTSGPQTNQPKHELTNFKSAA ED
10178	40546	B	10239	101	397	
10179	40547	A	10240	2	253	LQFEGTRKDPPTTSGPQTDQAR EHLTNFKSSA/CQIPWNSGPRLS E*LLPRSSRLSS*RLT/RAQSPW KPTGQSQMLWVTLTVEGT
10180	40548	B	10241	1	409	
10181	40549	C	10242	1	462	
10182	40550	A	10243	1	861	
10183	40551	C	10244	1	140	
10184	40552	B	10245	1	1773	
10185	40553	B	10246	1	320	
10186	40554	C	10247	1	420	
10187	40555	A	10248	273	485	LGSGDLPWGINPLSSCSLLREK DPLTISGPQTHQPKHELTNFKSG PTENRTVQLTWQPLPEPELELW PKAL
10188	40556	A	10249	508	558	
10189	40557	B	10250	76	358	
10190	40558	C	10251	83	414	
10191	40559	B	10252	1	1111	
10192	40560	C	10253	1	411	
10193	40561	B	10254	1	1054	
10194	40562	B	10255	57	229	
10195	40563	B	10256	1	222	
10196	40564	A	10257	230	1272	LLCSSACKCLMLGLHFVIVGNI CATLKEYSSMLHLDVTMCKN GEKRTRLQKRKKGMPPHPAYE DLNIAAITLPANVVLHQPSGFRT SGQLDPVWWSLDTDAHEIWCQ DPGLGSGDFPWEITPLSSYSLLH EKDPPTTSGPQTDQPKKHLTNF KSKTKETGFIHGPKTPAPVTDW EGSLPLVFNHCRDTSIIHPCFK GVRPRRDACLGPSPLAASPAFL EKGQDLINLAFKVYNNRKKLQ FLASTVRQTAATSPAHNKFQMP EPQRPGVPPEPPPTGACYMCRK SGHWTRNAGSPGFLLSRVPSV WDPTENRTVQLTWQPLPEPELE WPKALCLTDSFPDLLGLAA

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10197	40565	A	10258	1926	2448	DFIAVITTRKQLKTKYNAHHSK QAITKHFSFKISDLILCLKKKIM NRHFSKEDIYAAKKHMKKCS SLAIREMQIKTTMRYHLTPVRM AIIKKSNNRCRRGCGEIGTLLH CWWDCCLVQPLCKSMWRFLR DLADPAIPLLGIYPKDYKSCCYK DTCTRMFIAALFTIAKTWNQP
10198	40566	A	10259	1	1947	MNIDAKILN̄KILANRIQQHIKKL IHHDQVGFIPGRQGWFNICKSIN VIQHINRAKDKNHMISIDA EKA FDKIQQLFMLKTLNKLIGDGT FKIIRAIYDKPTANIILNGKKLEA FPLKTGTRQGCPSPLLFNIVLE VLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDANKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFFTELEKTTLKFIWNQK RAHITKAILSQKNKARGITLPDF KLYYKATVTKTAWYWYQNRD IDQWNRTQPSEITPHIYNLIFD KPDKNKQWGKGSFLNKCWE NWLAI CRKLKLDPFLTPYTKIN SRWIKDLNVRPKTTKTLEENLG ITIQDIGMGMDFM SKTPKAMAT KDKIDKWDLIKLKS FCTAKETT IRVNRQPTKWEKIFTTYSSDKG LISRIYNELKQIYKKKTNNPIKK WAKDMNRHFSKEDIYAAKKH MKKCSPLAIREMQIKTTMRYH LTPVRMAIIKKSNNRCWRGC GEIGTLLHCWWINWMKKTWH IYTMEYYASIKKNEFMSFAGA* MKLETII
10199	40567	A	10260	1	347	TNKIDRPLARLIKKKREKKQID AIKNDKGDITTDPTETQTTIKEY YKHLYANKLENLEEMDKFFDT YTLPRLNQEEVESLNRPIAGSEI EAIINSLPT/KKSPGPDGFTAKFY QRE

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10200	40568	A	10261	31	809	KPRLNYYVKNAEASGADAINW KKGYY/LVMEDEMNMKREGKF REKRIKRNEQSLQEIWYVKRP TLHLIDVPETLNAHKRKQERSK TDTLTSQLKELEKQEQTTHSKAS RRQEITKIRAELEKEIETEKTLQKI NESRSWFFERINKIDRPLARLIK KKREKNQIDAIKNDKGDITS DP TEIQTITIREYYKHL YANKLENL EEMDKFLDYTL PRLNQEEVES LNR PITGSEIVAIINS LPTKKSPG PDGSTAEFYQRYKEEL
10201	40569	A	10262	209	3816	QGRPTFRFRKYREHHKDTPREE QLQDT*SSDSPKLLK*RKKC*GQ PERKVKLP TKGSPSD*KRISRQ/ KTLQARRQSWFF EKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITTDPTIEIQTIREYYKHL YANK LENLEEMDKFLDYTL PRLNQE EVESVNR PITGSEIEAITNSLPTK KSPGPDGFTA E FYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASH LIPKPGRD TTKGNFRPISLMNI DAKIL
10202	40570	B	10263	1	2265	
10203	40571	A	10264	1	2832	
10204	40572	A	10265	1	2757	

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10205	40573	A	10266	1	2114	MKEKMLRAAREKGRVTHK GK PIRLTADLSAETPQARREWGPIF NILKEKNFQPRISYPDKLSFISEG EIKYFTDKQMLRDFVTTTRPVLK ELLKEALNMERNNNWYQPLQKH AKNMPNSIILIPKGRDTTTKKEN FRPISLMNIDAKILNKILANRIQ QHIKKLIHHDQVGFIPGMQGW NIHKSINVIQHINRTIDKNHMIIS IDAEKAFDKIQQLFMLKTLNKL GIDGTYLKIRIKYLG IQLTREVK DLFKENYKPLLNEIKEDTNKW KNIPCSWVGRINIMKMAILPKVI YRFNAISNKLPM TFFTELEKTTL NFIWNQKRARIAKSILSQKNKA GGITLPDFKQYYKATVTKTAW YWYQNRDIDQWNRTEPSEITPH IYTYLIFDKPEKNKQWGKDSL NKWCWENWLAVCRKLKLDPF LTPYTKINSRWIKDLNVRPKTIK TLEEILGITIQDTGMGKDFMSKT PKAMATKAKIDKWDQIKLKSF CTAKETTIRVNRQPTKWEKIFA TYSSDKGLIFRIYNELKQIYKKK TNNPIKKWAKDMNRPFSKEDIY AAKKYMKKCSPSLAIREMQIKT TMRYHLTPVRMAIHKSGNNR QTESQIMSELPITIA SKRIKYLGI QLTKDVKDLFKENYKPLLNEIK EDTNKWKNIPCSWIGRINIVK/T WPYCPSPQMYMSPTWQPKTLQ LWRQPKYPWKGTHRRKK
10206	40574	A	10267	1	2952	MLLNQGRKLPRVFAEETLKFK GTSNKPQTLEQISTSIIAQKEAT VMVPGSNQEIPSGAYAIRALGF KHKTGRLFEQTLNLYLQEF LFTP QWHLECQQERTVHSPGKAAEA REPSVIDRH LIQESSNWHLVGA ALGQSFQRKEQAAIFA VLQPLL VIPRQTGSGVDLQKTPTDLQQR GLIVRRKTNKQKGIVHNSTTRE QNWTENEFDKLT EGGFKRWVI TNSSELKEHVLTQCKEDKNLEK SAIKLELRIKNLIQN
10207	40575	A	10268	1	1797	

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10208	40576	A	10269	1	1751	MIISIDAEKAFDKIQQPFMLKTL NKLIGDGTTFKIIIRANYDKPTA NIILNGQKLEALPLKNGTRQGC PLSPLL FNTVLEVLARAIRQEKE IKGIQLGNVEVKLSLFADDMIV YLENPIVSAQNLLKLISKFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRIKYLGIQLTR DVKDLFKENYKPLLKEIKEDTN KWKNIPCSWVGRINIMKMAILP KVIYRFNAIPIKLPMFFTELEK TTLKFIWNQKRARIAKSILSQK NKAGGITPPDFKLYYKATVTKT AWCWYQNRDIDQWNRTEPSEI TPHIYNYLIFDKPEKDKQWGKD SLFNKRCWENWLAICRKLKLD PFLTPYTKINSRWIKDLKVRPKT IKTLQENLGFTIQDIGMGKDFM SKTPTAMGTKDKIDKWDLIKL KSFCTAKETTIRVNRQPTKWEK IFTTYSSDNGLISRIYNELKQIYK KKTNNPIKQWAKDMNRHFSIE DIYAAKKHMKKCSSSLAIREM QIKTTMRYHLTPVRMAIHKSG NNRNHLDKFHIRILGICYL/D*KI YQP*LHLVSRNRKPEKLSPKQA
10209	40577	A	10270	1	4729	
10210	40578	A	10271	1	1428	

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10211	40579	A	10272	1	2718	MALFRVGMTTTTLRGHANKFTR DLLVKRLLLYEFVVEIIPGLRTK TTLVGPLETGYTSSDSVNSPHF MLDIALSHNVKSTQLLLRPWR NIDCSRNHKNAKKEEQMGDDE INRQECSSSPAMEQSWTENDF DELREEVFRRSNYSELQEEIRTN GKEVKSFEKKLDEWITRITNAE KSLKHLTELKTKARELQLEKQE LTHSKASRRQEITKIRAEKIE TQKTLQKINESRSWFFKINKID RPLARLIKKKREKNQTDTIKND KGDITDPTETIQTIREYYKHL TNKLENLEEMDKFLDTYVLPRL NQEEVESLNRPTGSEIEAIINSL PTKKSPGPDGFTAIFYQRYKEE LVPFLLKLSQIEKERILPNSSYE ASIIIPKPGRDTTKKENFRPISL MNIDAKILNKILANRTQQHIKK LIHHEQVGCIPGMQGWFNIRKS INVIQHINRTKDKNHMISIDAE KLISKFSKVSGHKINVQKSQAF LYTDNRQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLNEIKEDTNKWKNIPCSWVG RINIVKMALLPRFSAIPIKLPM FFTELEKTTLKFIWN/QKRARIA KSFLSQKNKAGGITLPDFKLYY KATVPKTAWYCYQNRDIDQW NRTEPSEIMLLIYNYLIFDKPDK KKEWGKDSL FNKWCWENWLA ICRKLKLDPFLTPYTKMNSRWI
10212	40580	A	10273	396	1227	SLGRNSTSQKRVGANIQHS*RK EFSTQNFISSTTLHK*RRNKIL YRQANAERFCHHQACPKTAPE RSTKILERNRRLPARLIKKKREK NQIDATKNDKGDITDPTETIQT IREYYKHL YANKLENLEEMDK FPD TYTLPRLNQEEVESLNRPT GSEIEAIKSLPTKKRPGPDRTA EFYQRYKEELVPFLLKLFQSTE KEGILPNSFYEASIIIAKPGRDT TKKENFRPISLLNIDAKILNKILA NRIQQHIKKLIHHDQVGFIPGM QGWFNI
10213	40581	A	10274	1	2168	
10214	40582	A	10275	1	1845	

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10215	40583	A	10276	1	2877	MENDFDELREEGFRQSNYSELR EDIQTKGKEVENFEKNLEECITR ITNTEKCLKELMELKTKAQELR EEWRSLRSRCDQLEERV SAME DEM NEMKGEGKFREKRIKRNE QSLQEIWDYVKRPNLCLIGVPE RDGQNGTKLENTLQDVIQENFP NLARQANVQIQEIQRTPQRYSS RRATPRHIIVRFTKVEMKEKML RAAREKEIQT TISEYYKHLYTN KLENLEEMDKFLD TYTLPTLNQ EEVESLNR PITGAE
10216	40584	A	10277	1	1689	MIFSIDAEKAFDKIQQPFMLKTL NKL GIDGMYLKIIRAMYDKPA ANIILNGQKLEAFPLKTGTRQG CPLSPLLFNIVLEVLARAIRQEK EIKGIQLGKEEVKLSLFADDMI VYLENPITSAQNLLKLISNYSKV SGYKINVQKSQAFLYTNNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLL NKIKEDT NKWKNIPCSWVGRINIVKMAIL PKVIYTFSAIPIKLPM TFFTELEK TTSKFIWNQKRARIAKSILSQKN KAGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM PHIYNYLIFDKPDKNKQWGKDS LFNKWCWENWLDIWRKLKLD PFLTPYTKINSRSIKDLHVRPKTI KTLEENLGDTIQDIGMGKDFMS KTSKAMATKAKIDKWDLIQLK SFCTAKETTIRVNRQPTWEKIF AIYSSDKGLIFRIYKELKQIYKK KTNSPIKKWVKDMNRHFSKEAI YAAKRHMKKCSSSLAIREMQIK TTLSLPAQVSVV/RHGLSFCWD SRGCGKSGLFLAYSINPPQSH WDQE QVM
10217	40585	A	10278	1	2142	

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10218	40586	A	10279	1	1722	MIISIDAEKAFDKIQQRFMLKTL NKLIGIDGLYLKIIIRAIYDKPTAN IILNGQKLEALPLKTGTRQGCPL SPLQFNIVLEVLARAIRQEKEIK GIQLGKEEVKLSLLADDMIVYL ENPIVSAQNLLKVISNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTKK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMFTFFTELEKTT LKFIWYQKRARITKSILSQRNK AGDITLPDFKLYYKATVNBKA WYWHQNRHIDQWNRTKPSEIT LHIYNLYFFDNPDKNKKWGKD SLFNKWCWENWLAICRKLKLD PFLTPYTKINSRWIKDLNIRPKTI KTLEENLGITIQDIGMGKYFMT KTPKAMATKAKIDKWDLIKLK SFCTGKETTRVNRQPTKWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWAKDMNRHFSKED IYAAKKHMKKCSPSLAIREMQI KTTMRYHLTPT/RLIVIGIEECLR GKEKLETLYYWNSDTDHQP*W LGWP*WKS DHKKEQPSF

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10219	40587	A	10280	1	2076	MDKFLNTYTIPRLNQEEVESLN RSITGSEIEAIHNNLPKRSPGPD GFTPEFYQRYKEELVPFLCLKF QSIVKEGFLPNSFYEGSIILITKS GRDTTKKENLRPISLMNINAKIL NKILANQIQQHKKLIHHEQVDF IPGMQGWFNIRKSINVIQHINRT NDKNHMIISIDA EKAFDKIQQLF MLKTLNKL GIDGTYLKIIRAIYD KHTANIILNGQKLEAFPLKTGT RQGCPLSPLLFNIVLEVLARAI QEKEIKGIQLGKEEVKLSLFAD DMIVYLENPIVSAQNLLKLIGNF SKVSGYKISVQKSQAFLYTNKR QTESQIMSELPFTIVSKRIKYLGI QLTRDVKDLFKENYKPLLNEIQ DETNKWKNCSWVGRINIVKM VILP/KELEKTTLKFIWNQKRAR IAKTILSQKNKAGGITLPDFELH YKATVTKTACYLYQNRDIDQR NRTEPSEIMPHIYNYLIFDKSDK NKKWKGDSL FNKWCWENWLA ICRKLKLDPFLPPYTKINSRWIK DLNVRPKTIKTEENLGNTIQDI GMGKDFMSKTPKAMSTKAKID KWDLIKLSFCTAKETAIRVNR EPTWEKIFAIYSSDKGLISRIYN EFKQIYKKKTNNPIKKWAKDM NRHFSKEDIYAANRHMKKCSSS LAIREMQIKTTQVGGSEKSAS ELGNKLIELDQSEEWRGED

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10220	40588	A	10281	1	2685	MGDFNTPLSTLDRSTRQKVNK DTQELNSAPHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKTDHIL GSKALLSECKRTEIITNYLSDDS AIKLELRIKNLTQNRSTTWKLN NLLDDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFVALNAHKRKQGRSKIDT LTSQLELEKQEQTHSKASRRQ EITKIRAELEKETQKTVQKINES RSWFFERINKIDRQLARLIKKKR EKNLIDAIKNDKGDITDPTIEIQ TTIREYYKHLYANKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGSEIVAIINSLTTKKSPGPDG FTAIFYQRAIRQEKEIKGIQLGK EEVKLSLFADDMMIVYLENPIVS AQLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDTNKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFFTELKKTTLNFIWNQK RAHIAKS/VLSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMPRIYNYL IFDKPEKNKQWGKDSL FNKWC WKNWLAICRKLKLDPFLTPYT KINSRWIKDLNIRPKTIKTLEEN LGITIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSFCTAKE TTNRVNRQPTKWEKIFATYSSD
10221	40589	A	10282	1	1996	

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10222	40590	A	10283	1	1778	MIISIDA EKAFDKIQQPFMLKTL NKL GIDGTYLK IIRAIYDKPTAN IIPNGQKLEAFPLKTGTTQGCPF SPLLFNIVLEVLARVIRQEKEIK GTQLGKEEVTL S LFADDMIVYL QNPVSAQNLLKLIGNFSKVSG YKINVQKSQAFLYTNNRQTESQ IMSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFKWNQKRACIAKSILSQKNK AGGIMLPDFKLYYKATVIKTA WYWYQNRDIDQWNRTEPSEIM PHIYNYLIFDKPDQNKQWGKDS LFNK WY WENCLAICRKLKLDLP FLTPYTKINSRWIKDLNVRLKTI KALEENLGNTIQDIGMGKDFMS KTPKAMATKDKIDKWDLIKPK SFCTAKETTIRVNRQPTKWEKIF ATYSSDKGLISRNYNELKQIYK KKTIGPIKKWAEDMNRHFSKE DTYAAKKHMKKCSSLAIEM QIKTTMRYHLTPVRMVIKKSG NNRCWRGCGETGTL SHCWWD CKL/IQPLW/RFLRD*GPKTGGD S*MIQVKY*PQQKKKGCPNA
10223	40591	A	10284	3	2875	

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10224	40592	A	10285	1	1838	MIIPIDAEKAFDKIQPFMLKTL NKLGIHGMYLKIIIRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LPPLLFNIVLEILARAIRQEKEIK GIQLGKEEVKLSLFADDMMIYLE NPIVSAQNLLKLISNFSKVSQYK INVQKSQAFLYTNNRQTESQILS ELPFTIASKRIKYLGIQLTRDVK DLFKENYKPLLNEIKEDTNKW KNIPCLSIGKINIMKMAILPKVIY RFNAIPIKLPMFTFFTELEKTTLK FIWNQKRARIAKTILSQKNKDG GITLPDFKLYYKATVTKTAWY QYQNRDIDQWNRTEPSEIIPHV YNHLIFDKPDKNKKWGKDSLF NKWCWENWLAICGKLKLDPFL TPYTKINSRWIKDLNVRPKTIKT LEENLGNTIQDIGMGKDFMSKI PKAMATKAKIDKWNLIELKSFC TAKETTISVNRQPTWEKIFAIC LSDKGLISRIYKELQQRHKKKT NNPIKKWAKDMNRHFSKEDIY AANRHMKKCSSSLAIREMPIKT TMRYHLTPVRMAIIKKSNNRC WRGCGEIGTSLHCWDCNLVQ PLWKA VWRFLKDLELEIPFDPA ISLLG/IYPKDYKSCCYKDTCTQ STFTCRQHLPL
10225	40593	A	10286	1	2046	

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10226	40594	A	10287	1	1700	MEDEMNMKQEGKFREKRIKR NEQSLQEIWDYVKRPNLRLIGV PESDGENGTKLENTLQDIIQENF PNLARQTNIIQEIQRMPQRYSS RRATPRHIIVRFTKVEMKEKMS RAAREKEIQTTIREYYKHLYAN KLENLEEMDKFLDTCTLPRLNQ EEVESLNRTVTGSEIVAIINSLPT KKSPGPDGFTAIFYQROSESQI MSEFPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTKK WKNIPCSWVGRINIVKMAILPK VIYTFNAIPIKLPMFTFFTELEKTT FKFIWNQKRAHVAKSILSQKNK AGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM LHIYSYLIFDKPEKNKQWGKDS LFNKWCWENWLAICRKLKLD PFLTPYTKINSRWIKDLNIRPKTI ETLEENLGITIQDIGMGKDFMS KTSKAMSTKAKIDKWDLIKLKS FCTAKETTIKVNROPTKWEKIF ATYSSDKGLISRIYNELKQIYKK K\TNPNPIKKWVKDMNRHFSKE DIYAAKRHMKKCSSSLAIREMQ IKTTMRYHLTPV
10227	40595	A	10288	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTTHSKASRRQEITKIR AELKEIETQ

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10228	40596	A	10289	1	2019	MDTIKNDKGDITDPTEIQTIR EYYKHL YANKLENLEEMDKFL DTYTL PRLNQEEVESLNRPV RG SEIEAIINSLPT/KKSPGPDEFTAE FYQRKAFDKIQQAFTLKT LNK LVIDGTYRKIIRAICDKPTANIIL NGQKLEAFPLKTGTRQGCP LSP LLFNIVLEVLDRAIRQEKEITCIQ LGKEEVKLSLFADDMIVYLENP IISAQNLLKLISNFSKVSGYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKKIKYLG IQLTRDVKD LFKENYKPLLNEIKEDTNKWEN IPCSWVGRINIMKMAILPKVIYR FNAIPIKLPVAFFTELEKTTLKFI WDQKRAYIAKSILSQKNKAGVI MLPDFKLYYKATVTKTAWYW YQNRDIDQWNRTEPSEIMLHIY NYLIFDKPDKDEQWGKDSL FN KWCWENWLDIWRKLKLDPFLT PYTKINSRWIKDLNVRPKTIKTL EENLGNTILDIGMGKDFMSKTP KAMATKAKIDNWDLIK LKSFC TAKETTIRVNRQPTKWEKIFTT YSSDKGLISRIYKELKQIYKKKT NNPMNKWAKDMNRHFSKEDI YAAKRHMKKCSSSLAIREMQIK TTMRYHLTPVRMVIKKSGNNR PPLSKEQPPIFRLSIILATTRDGN PAAVENVLHIKATLSFQQTHKA FYFQPS
10229	40597	A	10290	1	3144	MGDFNTPLSTLDRSSRQKV NK DTQELNSTLHHADLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHVV GSKALLSKCKRTEITNCLSDHS AIKPELRIKLTQNRSTTWKLN NLLLNDYWVHNKMKA EIKMFF ETNENKDTTYQNLWDTFKAVS RGKFIALNAHKRKQKRCKIDTL ASQLKEVEKQE QTHSKASRRQ EITKIRAE LKEIETQKTLQKINES RSWFLERINKIDRPLARLIK KKR EKNQIDVIKNDK
10230	40598	A	10291	1	2274	
10231	40599	A	10292	1	2250	
10232	40600	A	10293	1	822	

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10233	40601	A	10294	I	2605	MKAEIKMFFETNENKDTTYQN LWDAFKA VCRGKFIALNAYKR KQERSKIDTLTSQLEKQEQ SHSKAGRRQEITKIRAELEIET QKTLQKINESRSWFFERINKIDR PLARLIKKKREKNQIDTIKNDK GDITTNPTEIQTTIREYYKHLA NKLENLEEMDTFLDTYTLPRLN QEEVGS LNTPITGSEIVAINSLP TKKSPGPDGFTAIFYQRYKEEL PGRVPTKKENFRPISLMNIDAKI LNKILANRIQQHIKKLIHHDQV GFIPGMQGWFNIRKSINVIQHIN RAKDKNHMISIDAEKAFDKIQ QPFMLKTLNKLGDGTYFRIIRA IYDKPTANIILNGQKLEAFPLKT GTRQGCPLSPLFNIVLEVLAR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS NFSKVSGYNFYVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLG IQLTRDVKDLFKENYKPLL KEIKEDTNKWKNI PCSWVGRIN IVKMAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQKRARIA KSILSQKNKAGGITLPDFKLYY KATVTKTAWYWYQNRDIDQW NRTEPSEIMPHIYNYLIFDKPEK NKQWGKDSL FNKWCWENWLA ICRKLKLDPFLTPYTKINSRWIK DLNVRPKTIKTLEENLGITIQDI GVGKDFMSKTPKAMATKAKID
10234	40602	B	10295	III	2440	

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10235	40603	A	10296	1	1795	MIISIDAEKAFDKIQPFMLKTL NKLSIDGTYFKIIRAIYDKPTANI ILNGQKLEAFPLKTGTRQGCPL SPLLFNIVLEVLARAIRQEKEIK GIQLGKEEVKLSLFAHDMIVYL ENPIVSAQNLLKLISNFSKVS GYKINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSGVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKGACITKTILS\QKNK VGGITLPDFKLYYKATVTKTA WYWYQ\NRDIDQWNRKIPSEIM PHIYNYLIFDKPEKNRQWGEDS LFNKWCWETWLAIWRKLKLD PFLTLYAKIN*RWIKDLNVRPKTI KTLEENLGITIQD\IGMGKDFM SKTPKAMATKAKIDKWDLIQL KSYCTAKENTIRVNRQPTKWE KIFATYSSDKGLITRIYNELKQI YKKKTNNPIKKWAKDMNRHFS KEDIYAAKKHMKKCSSSLAIRE MQIKTTMRYHLTPVRMAIIQKS GNNRTKRTIYRRNDDDDND DDNDDSLMSLSRTEIPFSSYSELN VVLHKPRPEPSASTILLHTA
10236	40604	A	10297	1	2851	
10237	40605	B	10298	1	3220	

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10238	40606	A	10299	1	2047	MENDFEELREEGFRRSNYSELR EDIQTKGKEVENFEKNLEECITR ITNTQKCLKELMELKTKARELR EECRSLRSRCDQLEERVSA MED EMNEMKREGK FREKRIQRNEQ SLQEIW DYVKRPNLRLIGVPET LHPRDEAHLKNLIDAIKNDKGD ITTDPT EIQT TIREYYKHL YANK LENLEETDKFLD TYTL PRLNQE EVESLNR PITGSEIVAIINSLPTK KSPGPDGFTA EFYQRYKEEL/PD KQLQQSLRIQNQCTKITSILIHQ QQTNREP NHE* TPIHNCFKENKI PRNPTYKGCEGPLQGELQTTAQ GNKRGYKQMEEHSMMLMGRKN QYHENGHTAQGNLQIQCHPH* ATNAFLHRIGKNYFKVHMEPK KSPHRQVNP KPKEQSWRHHTT *LQTI LQGYSNQNSMVL VPKQR YRSMEQNRALRNNAAYLQLSD L*QT*EKQEMGKGFP I**MVLG KLASHM*KAETGSLPYTLYKN QFKMD*RLKR*T*NHKNPRRKP RHYHSGHRHGQGLHV*NTKSN GNKSN*QMGSN*TKELLHSK KKKNY*QTEQATCKMGENFHN LLI*QRANIQN LQ* TQTNLQEKN KQPHQKV GKGHEQTLLKRRHL CSQK\NHEKMVTITGHQRNAN QNHNEIPSHAS*NGNH*KVRKQ VLERMCRNRNTFTLLVGL*TSS

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10239	40607	A	10300	1	2704	MYSHVITVCRHVKNGDILLNR QPTLHRPSIQAHRARILPEEKVL RLHYANCKAYNADFDGDEMNR AHFPQSELGRAEAYVLACTDQ QYLVPKDGQPLAGLIQDHMVS GASMTTRGCFFTREHYMELVY RGLTDKVGRVKLLSPSILKPFPL WTGKQHINRTKDKNHMIIISDA EKAFDKIQPFMLKTLNKLIGID GTYLKIIIRAIYDKPTASIIINGQK LEAFPLKTGTTRQGCPLSPLLFNI VLEVLARAIRQEKEIKSIQLGKE EVKLSLFADDMIVYLENPTVSA QNLLKLMSNFSKVSQYKINVQ KSQAFLYTNNRQTESQIMSGLP FTITSKRITYLGIQLTRDVKDLF KENYKPLLKEIKEDTNKWKNIP CSWVGRINIVKMAILPKVIYRF NTIPIKLPMTFLTELEKTTLKF WNQKRAHIAKSILSQKNKAGGI MLPDFKLYYKATVTKTAWYW YQNRDIDQWNRTEPSEIMPHI/Y YNYLIFDKPEKNKQWGKDTLF NKWCWENWLAICRKLKLDPFL TPYTKINSRWIKDLNVRPKTIKT LEENLGNTIQDIGMGKDFMSKT PKATATKAKIDKWDLIQLKSFC TAKETTIRVNRQPTWEEIFAIY SSDKGLISRIYNELKQIYKKKTN NPIKKWAKDMNRHFSEEDIYA AKKHMKKCSSSLAIREMQIKTT MRYHLTPVRMVIKKSGNNRC
10240	40608	B	10301	1	3345	

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10241	40609	A	10302	248	2623	RQWAGVVGRCSHLASWVSSNT SETGAIRSSTEVDAPDDSMMLST CDIDLTAAARAWLGCLPTKKSP GPDGFTAIFYQRCKEELVPFLL KLFQSI/EKEGILPNLFDEASIILI PKRGRDTTKKENFRPISLMNID AKILNKILANRNQQHIKKLIHH DQVGFIPGMQGWFNICKSINVI QHINRTKDKNHMIISIDAEKAF DKIQPPFMLKTLNKLIGDGYL KIIRAIYDKPTANIILNGQKLEAF PLKTGTRQGCPLSPLLFNIVLEV LARAIRQEKEIKGIQLGKEEVKL SLFADDMIVYLENPIVSAQNLL KLISNFSKVSAYKINVQKSQAF LYTNNRQTESQIMSVFPFTIASK RIKYLGIQLARNAKDLFKENYK PLLNEIKEDTKKWKNI PCSWVG RJNIVKMAILPKVIYRFNAIPIKL PMTFFTELEKTTLKFIWNQKRA RIAKSILSQKNKAG\GITLPDFK LYLQGLQ*PKTAWYWY\QNRD IDQWNRTEPSEITPHIYNYLIFD KPEKNKQWGKDSL FNKWCWE NWLATCRKLKLDPLTPYTKIN SRWIKDLNVRPKTIKTLEENLGI TIQDIGVGKDFMSKTPKAMAT KAKIDKWDLIKLSFCTAKETA IRVNRQPTTWEKIFATYSSDKG LISRIYNELKQIYKKK\TNNPIKK WAKDMNRHFSKEDIYAANKH MKKCSPSLAIREMQIKTTMRYH

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10242	40610	A	10303	1	2467	MGDFNIPLSTSDRSTRQKVND TQELNSALHQADLIDIYRTLHP KSTEYTTFFSAPHHTYSKIDHIVG SKALLSKCRRTEIITNCLSDHSA IKLEIRIKKLTQNCSTTWKLNLL LLNDYWVNNEMKAEIKMFFEI NEDKDTTYQNRWDTFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTHSKASRRQEI TEIRAELEIETQKTLQKMNES RSWFFEKINNIDRLARLIKKKR EKNQIDAIAKNHKGDTTNPTEIQ TTIREYDKHLYANKLENLEETD KFLDTYILPRLNQEQUESLNRPI TGAEIEAIINSLRTKKSPGPGGF TAEFYQRYKEKLIVLEVLARAI RQEKEIKGIQLGKEELKLSLFAD DMIVYLENPIVSAQNLLKLISNF SKVSGYKINVQKSQAFLYSNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEV KEDTNKWKNI PCSWIGRINIVK MAILPKVIYRFSAPIKLPMTFFT ELEKTTLKFIWNQKRSRIAKSIL SQKNRAGGITLSDFKLYYKATV TKTAWYWYQNRDIDQWNKTE PSEIMPHIYNYLIFDKPKNKK WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKINSRWIKDL NVRPKTIKTLEENLGITIQDTGM GKDFMSETPKAMATKDKIDKW DLIKLKSFACTAKETTIRVNRQPT
10243	40611	A	10304	2	2480	
10244	40612	A	10305	1	4793	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTTFFSAPHHTYSKIDHIL GSKALLSKCKRAEITNYLSHDS AIKLELRINKLTQSRSTTWKLN NLLLNDYWVNNEMKAEIKMFF ETKENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLELEKQEQTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKRE KNQIDTIKNDK
10245	40613	A	10306	1	4320	

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10246	40614	A	10307	1	3229	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLQ PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLS DHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAV CRGKFIALNAHKRKQERSKIDT LTSQLELEKQEQTTHSKASRRQ EITKIRAELEKEIETKKVTLQKINE SRSWFFERIKKTDRPLARLIKKK REKNQIDTI
10247	40615	A	10308	1	3392	MGDFNTPLSTLDRSRQKVNK NTQELNSALHQVQLIDIYRTLH PKSTEYTLFSAPHHTYSEIDHV GSKALLSKCKRTEIITNCLSDHS AIKLELRIKKLTQNCSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYPNLWDTFKAVC RGKFIALNAHKRKQERSEIDTL TSQLELEKQEQTTHSKASRRQE ITKIRAELEKEIETQKTLQKINESR SWFFEKINKIDRPLARLIKKKRE KNQIDSIKNDK
10248	40616	A	10309	1	4137	MGKKQNRKTGNSKKQRASPPP KEHSSSPA TEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VENFEKNLEECITRITDIEKCLK ELMELKTKARELHEECRSLRSR CDQLEERV SAMEDEMNEMKQ EGKFREKRIKRNEQSLQEIW DYVKRPNLPPIDVPESDRENGTKL ENTLQDVIQENFPNLARQANI QIQEIRMPQRYSSRRATPRHI IVRFTKVEMKEKMLRAAREKA FKQASRREDDIAKVTS
10249	40617	A	10310	1	5195	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIHIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLS DHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLELEKQEQTTHSKASRRQE IMKIRAELEKEIETQKTLQKINE SRSWFFERINKIDRPLARLIKKK REENQIDAI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10250	40618	A	10311	1	2958	MKQEGKFREKRIKRNEQSLQEI WDYVVRPNLHLIGVPESDREN GTKLENTLQDIIQEDFPNLARK ANIQIQEIQRTPQRYSSRRATPR HTIVRFTKVEMKEKMLRAARE KGRVTHKGKPIRLTADLSAETL QARRELNQEEVESLNKPVTGSE VVAIINSLPTKKSPGPDGFTA YQKYKEEPVPFLLKLFQSIEKE GILPNSFYEASIIIPKGRDTTK KENFRPISLMNIDAKILNKILAN RI\QQHIKK
10251	40619	A	10312	5211	7687	TDTSQKKTFYAAKRHMKKCSS SLAIREMQIKTTYHAGPDGFTA EFYQRYKEELVPFLLKLFQSIEK EGILPNSFYEASIIIPKGRDTT KK\ENFRPISLMNIDAKILNKILA KRIQQHIKKLIHHDQVGFI QGMQGWFNIRKSINVIQHINRAKDK NHMIISIDAFAFDKIQQPFMLK TLNKLIGDGYFKIIRAIYDNPT ANIILNGQKLEAFPLKTGTRQG CPLSPLLFNIVLEVLARAIRQEK EIKGIQLGKEEVKLSLFADNMI VYLENPIVSAQNLLKLISNFSKV SGYKINVQKSQAFLYTNNRQTE SQIMSQLPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEIKEDT NKWKNIPCSGIEGRINIVKMAIL PKNWKKTTLKFIWNQKRARIA KSILSQKNKAGGITVPDFQLYY KATVTKTAWYWYQNRDIDQW NRKEPSEIMPHIYDSLIFGKPKDK NKQWKGDSL FNKWCWEDWLA ICRKLKLDPFLTPCTKINSRWV KDLNIRPKTIKTLEENLGNTIQD IGMAKDFMSKTPKAMATKAKI DKWDLIKLSFCTRIAKEPTIRV NRQPTKWEKIFATYSSDKGLIS RIYNELKQIYKKKTNNPIKKWA KDMNRHFSKEDIYAAKHKMK KCSSSLAIREMQIKTTMRYHLT PVRMAIIKKSGNNRCWRGCGE TGTLHCWWDCCLAQPLWKS

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10252	40620	A	10313	1	4525	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH HKSTEHTFFAAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRINKNLTQNRSTTWKLN LLNNYWVHNEMKAEIKMFFE TNKNKDTTYQNLWDTFKA VCR GKFIALNAHKRKQERSKIDTLT SQLKQLEKQEQTHSKASRRQEI TKIRGELKEIETQKTLHKINESR SWFFERINKIDRLLARLIKKKRE KNQIDAIINDKG
10253	40621	A	10314	1	1185	MEDIKRTQKNLSEMKATLAEM KNTLDGINDHGRDSRRKIRKLQ DNGGDDPTGNTQRKKNLINGP SLSVHIGEKRGGRSWAETLTP LQTKALRLGPTTPSARRKCGIV PNLQTRKTEAYRYPDTHPGETP VGTAVLSIQPKLESVIDVRVN MSSFHPEPELQPTQTSVLPDQD ATVAGSTTKFPEEQEARQGRVR ERPATRERPVPGGVSVPLHHI HFLRGPSLPLASLTRITVLEAVV CFFSVWSIVGLSGFHTYLISSNQ TTNEDIKGSWSNKRKGENYNP YSYGNIFTNCCVALCGPISPRT/ LSHTGQRPTPIECEPHNLV TSA ETLLASKPD/PTEEGTSSPTRRS QQHPPMASPCTGPRSHRV TCTL EKREEEEGVGQRLSPLCKPRL
10254	40622	A	10315	44	302	GLLGPGPPTAC*CGPHCGIH PES SPQSWCLCHSHRSSRAPPLARL SGDRHPGWRTWGGRDARSVA RGQWWCLVEPVLPFSTRSAFW

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10255	40623	A	10316	3	2182	IRDPGKKPVMLFLHGGSYMEG TGNMFDGSLAAAYGNVIVATL NYRLGVLGFLSTGDQAAKGN GLLDQIQALRWLSENIHFGGD PERITIFGRYSQPGLSYHIAFGPV VDGDVVPDDPEILMQQGEFLN YDMLIGVNQGEGLKFVEDSAE SED/GAFDFTVSNFVDNLYGYP EGKDVLRETIKFMYTDWADRD NGEMRRKTLLALFTDHQWVAP AVATAKLHADYQSPVYFYTFY HHCQAEGRPEWADAAHGDPEL YVFGVPMVGATDLFPCNFSKN DVMLSAVVMTYWTNFAKTGD PNQPVYDTKFIHTKPNRFEEV VWSKFNSKEKQYLHIGLKPRL WSRFRGVLYQVFHDTICEKEAP KSSLLRKQTQPPKKQSSPAVHL RCTMDPVMMTVSPPPAHRHRR RGSPTCAHCPVAWAPDDE KPHQYPAICSYHWDVPEDWEG FQHTQGTWVPWSQDAPESPPQ TIRFQPTVEERPLKTGIWSELGL RAYVYPVNPSPPSPEAPSHKNG RIVYDARDMRRRLRELTREVE ALSGCYPLASGSSTAEETSKNW VYRSLTGSQKMSQLHRVPFFD QEDPDSYLEEEDNLFPYPKY RRGWGGFYQRAGLPSNVGLW GHQGGILASLPPSLYLSPELRC MPKRVEARKCQDLGDSILLLLG SFILLNVWINVVTLLWKHLKSS
10256	40624	B	10317	37	241	
10257	40625	A	10318	2	815	
10258	40626	A	10319	1	943	RAGGQGVG*GWGPPSVPCSVH GGKGL/PPEEGPGQVTHLEFGR GDGLLTPWWPLTGDGRGSA/S LASQRTCSQ*GMWLPAQAQSPS HPGPAGTVQSHLHL*GLLGPG PPHCLLMRPTLRDSSRVFTSKL VSVPPQVQVQGPTRKTWRS ASWMENLGRKGCQVCSTWPM VVPGGACTSIWEWEADRVTPG GHRGSSCSHSAAGGANAAPHG PRGRPGGHAAAGGRHSTDGRS SCSPRPDPGAARPQSAVHTDY RSPSLGTFPLAQPFGESKSDQSA PGIRGQKAPLAVARRGQQTPRP RGQARGRGRGTRPR

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10259	40627	A	10320	39	621	SCPEEEESSLLSPGTSWPLHAW ACSAAQVTGRERVVADWPGY HPGGPTAPHWRAGPLSDKTRPS RDVGTWDTGRAGCPPPGRNP GPPDQRKALGVVVTSGSQLG NGTPNSCLSPRQCWIQRLGGSS RTGPPPPGSVPEAAVSCPGHHT LFGLRSGAGKIQG*LLGPGWEL GQAGTEPPLPLAPPPHRS CG
10260	40628	A	10321	1	496	AAATYVQNQSEDCLYLNLVYP TEDGPLTKKRDEATLNPPDTDI RDPGKKPVMFLHGGSYMEGT GNMFDGSLAAYGNVIVATLN YRLGVLGFLSTGDQAAKGNYG LLDQIQALRWLSENIAHFGGDP ERITIFGSGAGASCVNLLILSHH SEGLFQKAIAQSGT
10261	40629	A	10322	1	4304	MLPVWFTDNLGAAATYVQNNQ SEDCLYLNLVPTEDGPLTKKR DEATLNPPDTDIRDPGKKPVMFL FLHGGSYMEGTGNMFDGSLA AYGNVIVATLNRYRLGVLGRYS QPGLSYHIAFGPVVDGDVVPDD PEILMQQGEFLNYDMLIGVNQG EGLKFVEDSAESEDGVSASAFD FTVSNFVDNLYGYPEGKD/DW ADRDNGEMRRKTLLALFTDH QWVAPAVATAKLHADYQSPV YFYTFYHHCQAEGRPEWADAA
10262	40630	A	10323	1	2765	MDVGFSRTTVQTLRSRSHCKNIK QKISQWEGRANGISNPEKWCPK DFGVRYNCHQEIRLKKNPPIAER KSKNLDVTSRENVGLDINENTK SHDQSEENENKKHEYDDTHFFK NESESNWVCSRVEIESCKEDV LDPETSLPPGNFYTSQILWKKIE ALPPDKLLNLALEHCDSEKEL NFRVLDSSYGITKSLENIYSEPE GQECGPSINPLPKPRRTFRYLSE SGVTPYKERNCDKKYCENNSC AQSSLASSQEPE
10263	40631	A	10324	2	597	RWLIPKVMRIYDTQKKMDREA SQAALQKMLTLLMLPPTFGDLL REEYIGDNGDPQTLQAQFQEM MADSMFVIPALQVAHFQCSRA PVYFYEFQHQP SWLKNIRPPHM KADHVKFTEEEELSRKMMKY WANFARNGNPNGEGLPHWPLF DQEEQYLQNLQPAVGRALKA HRLQLWKKALPQKIQELEEPE ERHTEL

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10264	40632	A	10325	2	1766	PGQPLGEQQRVRRQRTETSEPT MRLHRLRARLSAVACGLLLLL VRGQGQDSASPIRTTHTGQVLG SLVHVKGANAGVQTFGLGIPFAK PPLGPLRFAPPEPPESWSGVRDG TTHPAMCLQDLTAVESEFLSQF NMTFPSDSMSSEDCLYLSIYTPA HSHEGSNLPVMVWIHGGALVF GMASLYDGSM LAALENVVVI IQYRLGVLGFFSTGDKHATGN WGYLDQVAALRWVQQNIAHF GGNPDRVITIFGESAGGTSVSSL VVSPISQGLFHGAIMESGVALLP GLIASSADVISTVVANLSACDQ VDSEALVGCLRGKSKEILAIN KPFKMIPGVVDGVFLPRHPQEL LASADFQPVPSIVGVNNNEFGW LIPKVMRIYDTQKEMDREASQA ALQKMLTLLMLPPTFGDLLREE YIGDNGDPQ\TLPKRK\FQKMM ADS\MFVIPALQVAHFQ\CS\RAP VYLPTSSQH\QPSWLKNIRPPH MKADHGDELPFVFRSFF\GGNY IKFTEEEELSRKMMKYWANF AR\NGNPNGEGLP\HWP\LFDQE EQYLQLNLQLAVG\RALKAHRF QFWKKALPQKIQ\ELEPEERH
10265	40633	A	10326	2	435	ILAEFGSLHLEFLHLELSEGNQV FAEKVRNIRKVLRIEKPFGLYP NFLSPVSGNWVQHHSVGGGLG DSFYEYLIKSWLMSGKTDMEA KNMYYEALET/HKLGPEAFWF NSGREAVATQLSESYILRPEV VESYMYLWRQTHNTK
10266	40634	A	10327	3	583	

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10267	40635	A	10328	1	1299	MHLNQLPPILSRLGAVGFFGSM KAHLVSVSRQVRNIRKVLRKIE KPFGLYPNFLSPVSGNWVQLPI PGSVAAGEMPASYPYRHRAP VRRVCEALPHHVSVGGLGDSF YEYLIKSWLMSGKTDMEAKN MYYEALAEIETYLLNVSPGGLT YIAEWRGGILDHKMGHLACFS GGMIALGAEDAKEEKRAHYRE LAVQITKTCYESYAR\SDTKLGP EAFWFNSGREAVATQLSEE/YT YILRPEVVESYMYLWRQTHNP\ SYR\EWGWEVVLAEKYCRTE AGFSGDSKTCYSRHPQPRTTSR QSFFLAETLNRCLVSACNGPDT GLEARDTAESSETVISPAVKGSR GEKAMVRETDKPAKCIGKKSK NGKSDLKAASKMDAQFRSLCF EEVTPLWFEKVLEMNGPASPSV SPGGLSLEVWSLVMWHKDARP
10268	40636	C	10329	186	401	
10269	40637	A	10330	194	482	
10270	40638	A	10331	224	495	
10271	40639	B	10332	138	1810	
10272	40640	A	10333	1	1351	MGGVGEPGPREGPAQPGAPLPT FCWEQIRAHQPGDKWLVI RVYDISRWAQRHPGGSRLIGHH GAEDATDAFRAFHQDLNFVRK FLQPLLIGELAPEEPSQDGPLNA QLVEDFRALHQAEDMKLFDA SPTFFAFLLGHILAMEVLAWLLI YLALGP\GWVPSALAAFILAI AQSWCLQHDLGHASIFKKS NHVAQKFVMSGQLKGFS AHWWNFRHF\QHHAKPNIF HKDPDVT VAPVLLGESS VEYGKKRRYL PYNQQH LYFFLIGPPLTLVNFE VENLAYMLVCMQWADLLWA ASFYARFLSLSYLPFYGV PGVL LFFVAVRV\ES\H WFWITQM NHIPKEIGHE KHRDWSSQLAA TCNVEPS LFTNWFSGHLNFQIE HHLFPRMPRH\NYS PVAPLV\KS LCAK\HGL SYE\VKPFL\TALVDI VRSLKK\SGDIVL DAYLHQ
10273	40641	A	10334	43	399	

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10274	40642	A	10335	1	2229	FLK VCPQNNAETFGCLGTG\EK GDRGNQTQK\PLHYKSWSLFHR SCPRDFYGSKVGFQGGKENG G\GES\IYGGFFEDGVSLVKDH\ KEFLLSMANRGKDTNGSQFFIT TKPTPHLDGHHVVFQGV\SGQ EVVREIENQKTDAAASKPFAEVR ILSC\GELIPKSKVKKEEKKRHK SSSSSSSSSDSDSSRY\QSSSDS SDSESA TEESKSKRKKKHKRNS RKHKKEKKKSKSKKSASSES EAEN/LLEA QPPVLLFRPEEIP IPENRFLMRK\SPKADEKERKN RERERERECNPPNSQPASYQRR LLVTRSGRK\LKGRGPRRYRTPS RSRSDLFRRS\ETPHWRQEM QRA\QRM RVSSGER\WIKGDKS ELNEIKENQRSPVRVKERKITD HRNVSESPNRKNEKEKKVKDH KSNKERDIRNSEKEDKYKNK VKKRAKSKSRKSKEKSKSKER DSK\HNRNEEKRMRFKELKGR DHENVKEKEKQSDSKGKDQER SRSKEKSKQLESKSNEHDHKS KEKDRRAQSRRECDITKGKHS YNSRTRE\RSRRRDSSSRVRSRP HDRDRSM SK\EYHRYRDQVYS RRVRSRSRERRTPGRSRSRDR RRRRRDSRSSEREDSQRNKDK YRNQESKSSHRKENSESEKRM YSKSRDHNSNNSREKKADRD QSPFSKIQSSQDDELKSSMLK
10275	40643	A	10336	3	3366	

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10276	40644	A	10337	3	2431	GCLQELSVLFARGEPRGPCHNL LHYMLALIGVPEVFWAFLFHCS LGLEEEKLAPLIKGEKIVWLRS SFYFQHCLVDKSTLLPSSSVSLG IFHEEKNSGEFPIFAKAVRLALV PLRYVKLEDRDNWISVDSVTSE IKLAKLPDFESRYVQNGTYTVK IVAISEDYPRKTITGTVLINVEDI NDNCPTLIEPVQTICHDAEYVN VTAEDLDGHPNSGPFSSVIDKP PGMAEKWKIARQUESTSVLLQQ SEKKLGRSEIQFLISDNQGFSCP EKQVLTLTVCECLHGS\GCREA QHDSYVGLGPAAIALMILAFLL LLLVPLLLLMCHCCKGAKGFTP IPGTIEMLHPWNNNEGAPPEDKV VPSFLPVDQGGSLVGRNGVGG MAKEATMKRKVSSASIVKGQH EMSEMDGRWEEHRSLLSGRAT QFTGATGA\MTTETTITARATG ASRDVAGAQA\AAVALNEEFLK NYFTDKAASYTEEDENHTAKD CLLVYSQEETESLNASIGCCSFI EGELDDRFLDDLGLKFKTLAEV CLGQKIDINKEIEQRQKPATETS MNTASHSLCEQTMVNSENTYS SGSSFPVPKSLQEANA\KVTQEI VTERSVSSRQAQKVATPLPDPM ASRNVIATETSYVTGSTMPPTT VILGPSQPQSLIVTERVYAPAST LVDQPYANEGTVVVTERVIQPH GGGSNPLEGTQHLQDVPYVME
10277	40645	A	10338	5	354	RPRLTSQDIKKPDC/DGEDAIGR GFEC DGLHLEKIVHFALHLEKN VNQSLLELHKLATDKNDPHLC DFIETHYLNEQVKA\KELGDHV TNMHEMGAPDSGVAEYLFDKH TLGDSDNES

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10278	40646	A	10339	1	2024	GEALMYHTHFSELLDEFSQNVL GQLNDPFLSEKSVSMEVEPSP TSPAPLIQAEHSYSLCEEPRAS PFTHITTSDFSNDDEVESEK WY LSTDFPSTSIKTEPITDEPPPGLV PSVTLTITAISTPLEKEEPLEIEQ WGLIPRARPLFPKIKLEPHEVDQ FLNFSPKEAKHLHIFPSWAACT CGSSGNSAIRILAYSLALRVPT ETKKPRDLFGKTGREKGKEETS REKLYVAERERKAPVDHLHLPP TPPSSHGSDSEGSLSPNRLHPF SLPQTHSPSRAAPRAPSA LSSSP LLTAPHKLQSGPLVLTEEEKR TLIAEGYPIPTKLPLSKSEEKAL KKIRRKIKNKISAQESRRKKKE YMDSLEKKVESCSTENLELRKK VEVLENTNRASHGELVIGVLGK GRRWDPLL TSPHAGDQCLGSV QGWAGECTPRQLDGSRTTLISE EDPGSPMGGEALGAIVSYA WRGREALHASRVGAVIQAPIA AGSDICLSDIRESATSSQTNISVT RTLLQQLQKLQTLVMGKVSRT CKLAGTQTGTCLMVVVL CFAV AFGSFFQGYGPYP SATKMALPS QHSLQEPYTASVVR SRNLLIYE EHSPPESSSPGSAGELGGWDR GSSLLRVSGLESRPD VDLPHFIIS NETSLEKSVLLELQQHLVSAKL
10279	40647	A	10340	1	489	

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10280	40648	A	10341	1	2665	MESTLTLATEQPVKKNTLKKY KIACIVLLALLVIMSLGLGLGLG LRKLEKQGSCRKKCFDASFRGL ENCRCDVACKDRGDCCWDFED TCVESTRIWMCNKFRCGETRLE ASLCSCSDDCLQKKDCCADYK SVCQGETSWLEENCDTAQQSQ CPEGFDLPPVILFSMDGFRAEYL YTWDTLMPNINKLKTTCGIHSKY MRAMYPTKTFPNHYTIVTGLYP ESHGIIDNNMYDVNLNKNFSL SKEQNNPAWWHGQPMWLTA MYQGLKAATYFWPGSEVAING SFPSIYMPYNGSVPFEEIRSTLL KWLDLPKAERPRFYTMYPEEP DSSGHAGGPVSARVIKALQVV DHAFGMLMEGLKQRNLHNCV NIILLADHGMQTYCNKMEYM TDYFPRINFFYMYEGPAPRIRA HNIPHDFFSFNSEEIVRNLSRCK PDQHFKPYLTPDLKRLHYAKN VRIDKVHLFVDQQWLAVRSKS NTNCGGGNHGYNNEFRSMEAI FLAHGPSFKEKTEVEPFENIEVY NLMCDLLRIQPAPNNGTHGSLN HLLKVPFYEP SHAEEVSKFSVC GFANPLPTESLDCFCPHLQNST QLEQVNQMLNLTQEEITATVK VNLPFGRPRVLQKNVDHCLLY HREYVSGFGKAMRMPMWSSY TVPQLGDTSPLPPTVPDCLRAD VRVPPSESQKCSFY LADKNITH
10281	40649	A	10342	590	900	PLYSATVPSAFCSGQ/LVPHIKS FCRLNIFNR*LIELRHLVFFVLLL FRDLQHIMACNMRDAVRFFVC FLVIFFREGLSRSSCQKCSRKSQ NCGLFYNFFDVHVH
10282	40650	A	10343	1	804	
10283	40651	A	10344	207	299	
10284	40652	A	10345	738	1007	EDASCDEGSTARAVHSMEPAG ARNRQKPHPFQVRGAEPHPW* RCSHPAVAVDPGIHALSGKPLC SWRLGSDLPTVWPLPTDPPVS VS
10285	40653	A	10346	150	509	QLPAGSGEGPYHLEGQLSYCHR GGEKALAAALLSSPTSKTRSPSEP DPEQDEQKLRFCRRLHYGQQP RSPVEIRLQHVAIAIYQTHHAYD *FVQLYNQHVAQPVLEFPYPGA VVALLSRHL

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10286	40654	A	10347	120	620	SYVKYFPHQPAQKYFQQIHSAILHNADHVHKLHLLGDNRYPIWIMQPSAHHPARQPEHDNHFR*VQQLYDGDSHRQFL*HQILFDRTPVSVSDQSVEKKG*DHPVRPQ*AAPGHVVHLYLTIPERSSQHYHPGALLQE*TSHPDHIQARGSILASVLSGSDRWRRRTYRCL
10287	40655	A	10348	599	1185	MCQNLMTHSKSTEWKITKRFLTETEKHIRTFFSSLSMKAIHHPA/HNHTLRDPHYVEDKGHKYLVFEANTGTENGYQGEESLFNKAYYGGGTNFFRKESQKLQQSAKKRDAELANGALGIIELNNDYTSEKSNEAADHFKHVPQAKGNNVVI TSYMTNRGFFEDKKATFAPSFLMNIKGNKTSVVKNSILEQGQLT
10288	40656	B	10349	1	975	
10289	40657	A	10350	1	1080	
10290	40658	B	10351	58	1128	
10291	40659	B	10352	1	1029	
10292	40660	A	10353	10	108	
10293	40661	B	10354	208	2237	
10294	40662	A	10355	1	1153	
10295	40663	A	10356	1026	1274	LHIEKSNEAADHFKHVACHR*R*ACTCHCNNPWFRPLPQPDCTSATVEPLYPPIRSRGRTRKPAEGSRAPGCCCCQRP GK
10296	40664	A	10357	434	1128	MCQNLMTHSKSTEWKITKRFLTETEKHIRTFFSSLSMKAIHHPA/HNHTLRDPHYVEDKGHKYLVFEANTGTENGYQGEESLFNKAYYGGGTNFFRKESQKLQQSAKKRDAELANGALGIIELNNDYTLLKVMKPLITSNTVTDEIERANVFKMNGKWYLF TDSRGSKMTIDGINSNDIYMLGYVSN SLTGPKPLNKTGLVLQMGLDPNDVTFTYS HFAVPQA KSNV VNYGA
10297	40665	A	10358	300	491	SYVKYFPHQPAQKYFQQIHSAILHNADHVHKLHLLGDNRYPIWIMQPSAHHPARQPEHDNHFR*VQQLYDGDSHRQFL*HQPAQKYFQQIHSAILHNADHVHKLHLLGDNRYPIWIMQPSAHHPARQPEHDNHFR
10298	40666	B	10359	1	1226	
10299	40667	A	10360	1369	1548	
10300	40668	A	10361	1	1365	

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10301	40669	A	10362	1560	2384	MCQILMTHSKSTEWIITKRFLTE TEKHIRTFSSLSMKAIHHPA/HNH TLRDPHYVEDKGHKYLVFEAN TGTENGYQGEESLFNKAYYGG GTNFFRKESQKLQQSAKKRDA ELANGALGIIELNNDYTLKKVM KPLITSNTVTDEIERANVFKMN GKWYLF TDSRGSKMTIDGINSN DIYMLGYVSNSLTGPYKPLNKT GLVLQMGLDPNDVTFTYSHFA VPQAKGNNVVITSYMTTRGFFE DKKATKAPSFLMNIKGNKASV VKNSILEQGGQLAVN
10302	40670	B	10363	783	881	
10303	40671	A	10364	1	1359	
10304	40672	A	10365	1512	2010	ENFPHQPAQKYFQQIHSAILH NADHVHKHLLGDNRYPIWIMQ PSAHHPARQPEHDNHR*VQQL YDGD SHRQFL*HQILFDRTPVS VDQSVEKKG*DHPVRPQ*AAP GHVHYLTIPERSSQHYHPGALQ E*TSHPDHIQAK*WHYR\GHYS YARN*RIHHRGSWCR
10305	40673	A	10366	62	368	TGARRVPWPRRGARLRGRARA RDESGSAGDQPPSPFPWWGW RWVTTAASPANLWPSVARSTM VDRAINL/FFLKMKGD LALTED KREQAQNEQSAWKFTPGR
10306	40674	A	10367	2	305	CTINNPKSF/HGVGFKQHAPQA LTEIQKFAMKEMGTPDVRIDTR LIKAVWAKGIRNVYPYRIRVRLS RKRNEDEDSPNKLYTLVTYVP VTTFKNLQTVNVN DEN
10307	40675	A	10368	129	283	HLILLFLKHKYCFAREEEEE*R GVGGE EEEEEEEEEEGEEEEEEI FKSIVY
10308	40676	A	10369	777	1755	DIWDQTEHQSSGPWSYGTSTDP EPTSDLAIVIFEKRGGE EEEEE KEEEEGRR\EEEEKEEEE\GRRR EEEEEEEEEEEE\GRRAQEEEE KKEEEEEEEEEEWCLGEEESQPG HAEVPSPHKMGALTLRVEGV KEQEAKLLRSSDLMKGFSSSTS QHPPQCSKRTNSESNA DAKSKK KERPIMTFRQRKTFRIRILPLPQ GRIAGSNKLSAKLCTDGRGAG DVGVL TNVMLKRLHFTIDHFLF KIIQMSPSASWNLWSLLDQDSL KCQICLEGYAQGGKPDVQLLPP RLTADWKGHRWGQMMGLDE KLTPSSVMVT SVALFWFEVSAQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10309	40677	A	10370	1	444	
10310	40678	A	10371	1	3799	MNRQLSKEDIQMANKHEKML NITNDQGNANQNHNAIQPYSC KNGHNRKIDVSMNMVNREHFY TAVHKASDLSFKPTSEKDLDTK LQANFPNLVKAPDKARICFCGK PYQPYVQGSPNSPVEIVENEPSQ LLHFLCVGSSKEEIDLGNPKGS QHTGLGHSMGKCNYFYLPILLV HGWKSHLHPCVASMKVAGTQ RTQDQDEAQEKEKRDKRKAEA LVAALQTYKTQNPQGAPANCY KCGKLGHFKKDCHSSKRKPL
10311	40679	A	10372	1	990	MTQKKNQTEQKEQKNEQKKQ HNERKEHKKKQTEYKTHETNR PRKTERAEHDEQKRENEGKRR RHKRT/RERKKTNEETETRKG REKPEQARQARKEKQKRQGE RQ\KEEKKRKNNRQENEEEEAN EQDRREQKEETRKRGRPRKRRE HKEEEGRRRERKKRKRKTKEKG RRAQKERREEEQQRRRRRR GKRKKNESEDEEDKASNHRQ QERERQKRKGAEARRRPAETG RRRRKRKRQRKA\AKQRQERQ GDGVLPCAPWTAHPRQPSQCW SARAPGGSahrPRRYLLTGQA NGSLAMWDLTTAIGRPRPGPCR WPDGARADGTAGTL
10312	40680	A	10373	99	1365	KEAEGRALARLLGPSEERFAAH EGMRPMAVFTTRQGHIFTTGFT RMSQRELGLWDPNNFEPPVAL QEMDTSNGVLLPFYDPDSSIVY LCGKVLTAGQGEQGTGWRCG GPCPGAPLNRLILQGDSSIRYFEI TDEPPFVHYLNTFSSKEPQRGM GFMPKRGLDVSKEIARFYKLH ERKCEPIIMTV\PRKVRAWDRD LGRRSDAVPRIRQGPEPALEAD EWLSGQGRNPNCSFSLRDGYC CPPTHRLRVTKRNILDVRRPS GPRRKPSRPATPPCRSSTPLETL LEEIKPLRERVQAQEQRITALEN MLCELVDGPHYPRAPGRASGL PTDPFGGAVRRACVPVPLVPL ARAVRTLPLRYASSIAALVERM KAHMWAKGRATRDATAKRCS PMAQTTTQHLHVPCDREDES R WNYICCSS

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10313	40681	A	10374	1	361	MINPNPERSDDL VFWGLFRAG GMWSAIIAPVMILLVGILLPLGL FPGDALSYERVLAFAQSFGRV FLFLMIVLPLWCGLHRMHAM HDLKIHVPAGKWV\FYGLAAIL TVVTLIGVVTI
10314	40682	B	10375	70	256	
10315	40683	A	10376	224	414	LRWRSLPAFQSGNLSVPAALM NRANARGEAVCVLGRSSRFLA H*LAALGRSAAASGISSLKGG
10316	40684	A	10377	439	595	RAISCCPSHLVKRKTTLAPNTQ TASPRALADSLMQLARQVSRLE SGQ*AQRN
10317	40685	A	10378	1	391	FSSGTVPGDRPDREFIGDTLME RRNRRTGRTEKARIWETANTL AITMLMSTAMPAAAADGVTFS VPVTPHTFRHSYAMHMLYAIGI PLKGLQSLMGHKCIRSTGRLPQ RFLGLEWGLPGHPGGRlamae
10318	40686	A	10379	278	694	GHRSP LAIAGCPTIQNGAGPQC AAITRVRAARWCGYPPGSGIPTI PEDSFMLYPRALTTHQTGFSPA WGKPSVDRLLATLSGPGGEGQ YSCCPSHLVKKKTTLAPNTQTA SPRALADSLMQLARQVSRLESG Q*AQRN
10319	40687	A	10380	2	371	SVQVFIRDKLMERRNRRTGRTE KARIWEVTDRTVRTCDCGGGL PAAAADGVTFFCSAPPNIRFR\H SYA\MHMLYAR*YPLKGLLSPI G\HKCIRSTGRLPQRFLGLEWG LPGHPPGGRlamaev
10320	40688	A	10381	276	508	
10321	40689	A	10382	464	763	
10322	40690	A	10383	1	715	MQHLSHGSRRHILISENFRGCQ DQAVSQTLTLTRPPLVSKEASFF LLPFDLHVLGLPPAFNLSHDQT LQFKSLTLVTSVRVPLEVARPG LSMLGLLRFMSSLLAVGDMGQ GDQVEFQDTKGNSEGRASSQPP MTPLTPTRVRRCPGGPTWGAK AEGVGRAEAATADPGSEGDVV LSRTGLLLAGLLHYFRGRHLE EIMYNENTRRSQLLMLFDKFRS VLV\VTTHEDPVI\VFQALLP
10323	40691	B	10384	72	195	
10324	40692	A	10385	1	2331	

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10325	40693	A	10386	1	706	MTTSRSDTRSQDDPSAHLASPK LPQRLPKDLSEAQVERLLQAPLI DQPLELRDKAMLEVLYATG\LR VSELVGLTMSDISLRQGVRVI GKGNKERLVPLGEEAIVHWLET YLEHGRPWLLNGVPINVLFPSQ RAQQITRQALWRRINHYDELA GIDSEKLSPHVVRHAFATYFAG SGGCIADFCGGSCAGSSAAESC LWFAGTGLYLHHA WVSGVWS REC SGAAWRDRRDVGGGE
10326	40694	A	10387	39	209	EPGTYVYNETDKSHSPCRPCVL LS**GIYLGSV*R*NGITYGALL AHIPNKFQVDY
10327	40695	A	10388	2	930	AWTHAGILLKHKYSFLVGCASI SDVIAQVVFVAILLHSHLECRE PLLIPILSLYMGALVRCTTLCL GYYKNIHDIIIPDRSGPELWGDA TIRKMLSFWWPLALILATQRI RPIVNLFVSRHLGGSSAATEAV A\LTATYPVVHMPYGWLTEIR AVYPAFDKNNPSNKL VSTSNTV TAAHIKKFTFVCMALSLTLCFV MFWDTQRV*GKSLIDIIGSLW PLQELCV\PLWIFSFFPVPVTV RAHLTGWLMTL\KKTFLAPSS \VLR IIVLIASLVVLP\YLG VHG ATLG\VGFL\AGFCGENSTMG
10328	40696	A	10389	1	1389	GDATIRKMLSFWWPLALILATQ RISRPIVNLFVSRDLGGSSAATE AVAILTATYPVGHMPYGWLTEI RAVYPAFDKNNPSNKL VSTSNT VTAAHIKKFTFVCMALSLTLKD SVQKPDISLTGRLVQTLPTMR HQRGESKDVAPLASWLSEPSTS SEASQTSSKLTINSQGEGKAKQ KLECGTLSIVLRSCEKNQERIK AEKRNRSWTTL CGLGAWRPLL FELPVIVQTPDQTNRFQFRYP KTQSGLC SFFHSFDLLTLEAFV KVWFP GCLLILIEYASSKNRKS KMLQNLKLLSADMTLKL CFVM FWTPNVSEKILIDI\GVDFAF LCVVPLRIFSFFPVPVTVRAHLT G\FLMTLNY\TFVLAPSSVLR IIV PHRPASWVLPYLVGHGATLG G\SLLAGFVGESTMVA LATCY VYRKQKKK MENESATEGE\DS AMTDMPPTTEEVTDIV\EMREEN

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10329	40697	A	10390	57	556	TGRCTCHDRHYWYSPVERIAY NVEAAR\VEQRTDLDKLVIEME TNGTIDPEEAIRRAATILAEQLE AFVDLRDVRQPEVKKEKPEFDP ILLRPVDDLELTVRSANCLKAE AIHYIGDLVQRTEVELLKTPNL GKKSLTEIKDVLASRGLSLGMR LENWPPASIADE
10330	40698	A	10391	536	787	GRD*PDYAENAHVMPVVIED ASDMLLAITQAGRMLMFPVSD LPQLSKGKGNKIINIPSAEAARG EDGLAQLYVLPQSTLTIH
10331	40699	B	10392	868	900	
10332	40700	A	10393	1	278	MNPQEANYAYLRG/EVELVRLP DAEGRIAAE/GALPYPPGVLALE EGI/NLLPGFAPELQGVYIEE/HD GSGIIMLPTKLAEVGTI
10333	40701	A	10394	1	811	
10334	40702	A	10395	1	682	
10335	40703	A	10396	442	546	
10336	40704	C	10397	1	1776	
10337	40705	A	10398	2	1354	YFSPAAMKALDLLIKWTRSDQ NLGGCNTGLIRPISPIVLIYKLVI GEQMIDVLGPEKRRRTTQEKI AIVQQSFEPGMTVSLVARQHG VAASQLFLWRKQYQEGSLTAV AAGEQVVPASELAAAMKQIKE LQRLLGKKTMEHELLKEAVEY GRAKKWIAHAPLLPGDGDCTS FSDEPMTGWMAAAVVTLMIR MCFSVYTMLSESCQRMVIVGY GRR\PDQRNLMIQGSKP/SIFRQF C/PDFEHLQEPYE/LLWE/MYGN RGYLQLVSFMQKFIDQSIFANT QYDPSRFPSPGKVPIQQLLKDLL TAYKFGVKTLYYQNTRDGAED AQDDLVPISQDDGCESGACLIR RASVASGSGCRMQRERLILATA RICRPDKTRQRRIRHRMRKMP YPALNSQQDTLMAYTTFSQTK NDQLKEPMFFGQPVNVARYDQ QKYDIFEKLIKQLFFLLASGRS
10338	40706	C	10399	1	1269	

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10339	40707	A	10400	1	1909	MGFHHVAQAGFELLISDDL PAL ASQTARITAREARAPVEENKKA QLERDKQLSEQQKQAALAKE KAQVKQLIEMNRITANGDIGF NFTDGNLIKKIFVDKLTQAQLIN GRLAIARLLVDNNSEGEYAIIPA SVADKIAQRDASSIVLHSALSA EEQDEDDPYADFKVPDDL MWP TVYGRSVDRI RRRIRQSCAM PDATLCASYQAYGLRAKHPSFS SQGVPHCPVDVTLK IASEAPSPI VGGTLPVPM TSQLPSVTSMQLL LDLDTIPNEPLHYDWEALRESI KTHGLRNSTLSALMPSETSSQIS NATNGIEPPRGYVSIKASKDGIL RQVVPDYEHLHDA YELLWEMP GNDGYLQLVGIMQKFIDQSISA NTNYDPSRFP SGKVPMQQLLK DLLTAYKFGVKTLYYQNTRDG AEDAQDDLVP SIQDDGCESGA CLIRRASVASGSGCRMQRERLI RPTARICRPDKTRQRRIRHRMR RVLPGRATRDRD FPSLEAGYQW LPGRGLVIEPQAQVMYQGVQQ DDCTAASRARVSQSQGDDIQTR LGLHSEWRTAVHVIPTLDLNDY HDPHSTEIEEDGSTISDDAVKQR GEIKVGVTGNISQ RVSLRGSA WQKGSDDFAQTAGFLSMTVK
10340	40708	B	10401	1	1329	
10341	40709	A	10402	1419	1788	ALTSVLPRPSVHW*SPKPRNVD WHIGRGVAIIMQKSGIPDIDQA NCMIKLESDGTFIVHSGGADIG TGLDTVVTKLAAEVLHCPPQD VHVISGDTDHALFDKGAYASS GTCFSGNAARLAAEN
10342	40710	A	10403	73	477	SMFPRIPFGY/WHI/GSRVAIICQ K/SGIPDIDQSNLHDQLESHGTFI VHSG/GFDYGTGLDTV/VLTKL AAEV/LHCPPQDVHVISGDTDH/ ALFDKGAYASSGTCFSG/NAAR LAAVNPRALAYSYG GGGGARV CIWGGWGRR

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10343	40711	A	10404	1	756	MSIAYQEIPQNERLRRLSDSSITS VVEYLLAVVARSVYTSPDMAIF REHHSYMSLSMAACRKIRPCPQ ELPRSIPHMISAMWSQSAPDHV VQHEREQQSGFGDGTESHSTSD SNTEVRQNCSPPIGGVRNHRAL RGHQPAELEPENILKLLMVAE RKAHKGWYYSGDLCRMDEAG YIKITGRKKDIIVRGENISSREV EDILLQHPKIPNAICMGAMSDD RLGERSCAYVVLKAPHHSLSL EEVLCWRGC
10344	40712	A	10405	252	1245	GSRILPGASITRS\LEFIAGQAVK FNPLLPVSLVKRNTTLAPTHT ASPRALADSLMQLARQVSRLD SGQRSVVFVRWSRRSIIVDSA GLITTQRALGQSDMYRGSLPISE LRIIGPRHLRGVLRVRLCPFSE PMLVECNPLLPSSLIIREPSLEPT LRFASRIALPDSTVLQIFSGVLP LSSGQAYIQFTYSETPRSTPREA NSAHILSVHQWKCGHIVMAAR VKVGYPQWTPISLSAGLSAVLY KPVERGGRCSHSCSTALSPQGF LSSLLRFISEGVFKSFTDKQMLR DFVTTRPALIVLLWQPLNVEGT SSTSHCIIMPTCNDHRD
10345	40713	A	10406	269	432	
10346	40714	A	10407	332	933	RVSRGRKVVFYRPEEDAGDEK GYESFPWFIKRAHSPSRGLYSV HINPYLIPFFIGLQNRFTQFRLSE TKEITNPYAMRLYESLCQYRKP DGSIVSLKIDWIIERYQLPQSY QRMPDFRRRFLQDFRLLGQ\TS VDRLL\QLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTA\SPRAL ADSLMQLARQVSRLSESGQ*AQ
10347	40715	A	10408	1	531	MRWKIDLARISKEIIDFYITQGV NRIGFIAGEDEPGKADIREVAFA EYGRLLKQVVREEDIWRGGFSSS SGYELAK\QILARKDYPKPLFV ASDSIAIGVLRRAIHERGLNIPQDI SLISVNDIPTARFSFPPLSTVRIH SEMMGSQGVNLVYEKAPDGR ALPLLVFVPSKLLKLRGTTR
10348	40716	A	10409	1	1059	
10349	40717	A	10410	2187	2429	

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10350	40718	A	10411	1	835	MRPFGDYDPGGIDDLKISFSVP AAGVGPHFDQYDVFIQGTERR RWRVGEKLQMKQHCPHDL QVDPFEAIIDEELEPGDILYIPPG FPHEGYALENAMNYSVGFRAP NTRELISGLPDYVLQRELGGNY YSDPDVPPRAHPADVLPQEMD KLREMMLELSTHPDPFKQWLG EFISQSRHDLDIAPPDPYPQDE FSDALNQGVKVLGALGGLRVLR MGDAVYPNGEKMDSPRPALD ALASTIALTAKNFGDALEDPSF LAMLALVNSGYWFFEG
10351	40719	A	10412	249	474	VYLLIVLAVLYTNNRQTESQIM SELPFTIASKRIKYLGIQLTRDV KDLFKDNYIPLLKEI*EDTSKW KSIPCSWI
10352	40720	A	10413	157	413	ALVCS/SSLAIEMQIKTTMRYH LTPVRMAIIKKSGNNRCWRGC GEIGTLLHCWLDCKLVQPLWK SVW*FLRNLELEIPFDPAIPLL
10353	40721	A	10414	342	528	
10354	40722	B	10415	32	587	
10355	40723	A	10416	1	2141	
10356	40724	A	10417	1	748	
10357	40725	A	10418	321	411	RNRDRYKQWKQDFFHDSYNR QRCGCWRLYRRHHR*CRRYRR QQPHLCRLYES*KKSCFHCLYR SRF/RLRVKYPRDMYSCLGTFL RSPVAIRIPLSRNQVKR
10358	40726	A	10419	1	2235	

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10359	40727	A	10420	1	1884	MGKDFMTKTPKAMATKAKID KWDVIKLSFCTAKETTIRVNR INKIDKPLARLIKKKREKNQIDT IKNDKGDITTDPTIEIQTIREYY KHLTYTNKLENLQEMDKFLDTY TLPRLNQEEVETLNRPTGSEIV AIMNSLPTKKSPGPDGFTAIFY QRYKEELVILIPK/PGQDTTKKE NFRPISLMNIDAKILNKILAKRI QQHIKKLIHHDQVGFIPGMQG WFNIRKSINVIQHINRAKDKNH MTISIDAEKAFDKIQQPFMLKTL NKLIGDGTIFYKIIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLNFIVLEVLAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPTVSAQNLLKLISNFSKVSG YKINVQKSQAFLYTNKRQTESQ IMSELPFTIASKRIKYLGIQLPRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VTYRFNAIPIKLPMFTFFTELEKT TLKFIWNQKRARIAKSILSQKN KAGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIT PHIYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAICRKLKLDLP FLTPYTKINSRWIKDLNVRPKTI
10360	40728	A	10421	1	822	
10361	40729	A	10422	2738	2949	
10362	40730	A	10423	1	1134	
10363	40731	A	10424	1	2118	
10364	40732	A	10425	938	1147	SLETRKSAPCTIMFRICIAGCCW LPCGTPSVLTKRWH*P*VIFL WSRRIHTASCLPSQRSITGHVH HQ
10365	40733	A	10426	2	1624	
10366	40734	B	10427	1	3690	
10367	40735	A	10428	1	1056	
10368	40736	B	10429	1	2265	
10369	40737	A	10430	1	2037	
10370	40738	A	10431	1	2406	
10371	40739	B	10432	670	2568	
10372	40740	A	10433	3	4072	
10373	40741	A	10434	1	3171	
10374	40742	A	10435	1	1542	
10375	40743	A	10436	1	1008	
10376	40744	A	10437	1	2241	
10377	40745	B	10438	1	2682	

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10378	40746	A	10439	644	949	MRKPTLGRTYPSRPPSPAAARG ASRAALGPGHGLETRKSAPCTI MFRICIAGCCWLPCGTPTSVLT KRWH*P*VIFLWSRRIHTASCLP SQRSITGHVHHQ
10379	40747	A	10440	1	1088	MARKDIQVLIIGTYEYYLVKGE KVLTLIAIKLVKWSGYPGLC LPEYHLGEVEGEDDMEVTAMD GRCLEVKGQSERLQVADQECV GDGSGRLCPFDRCECEQRLQLV RPGLCNPRAIALTTKPQSPSPNI KRLVIGEQMIDVLGPEKRRRRT TQEKIAIVQSFEPGMTVSLVA RQHGVAASQEGSLTAVDAGEQ VVPASELAAAMKQIKELQRL GKKTMEHELLKEAVEYGRAKK WIAHAPLLPGDGERTDDWMDG RRSRHTDDTDVL*SASWRQQV QRQEQPVLRRRQQ*DFLGLWL LHHVAGQRGRPSSPVQSSAEQL RSFPVWYAVCVSPALRHQSSVL
10380	40748	A	10441	1	2781	MGKKQNRKTGNSKKQSASPPP KERSSSPATEQSWMENFDDEM REEGFRRSNYSELREDIQTGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRS RCDQLEERSVMEDEMNMEN DGENGTKLENTLQDIIQENFPN LARQANVQIQEIQRTPQRYSSR RATPRHIIVRFTKVEMKEKMLR AAREKDFKPTKIKREKEGHYIM VKGSIQQEELTIKIYAPNTGAP RFTKQVLSDLQRDL
10381	40749	A	10442	1	2445	
10382	40750	A	10443	1	1428	
10383	40751	A	10444	1	2478	

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10384	40752	A	10445	1	1746	METQKTLQKINESRSWFFKIN KIDRPLARLIKKKREKNQIDTIK NDKGDITTDPTIEIQTIREYYKH LYANKLENLEEMDKFLDTYTL PRLNQEEAESLNKPITGPEIEAI NSLPTKKIPGPDGFTAIFYQRY KEELQHIKKLIHHDQVGFIPGM QGWFNIHKLINVIQYINRTKDK NHMIISIDAEKASDKIQPFMLK TLNKLIGDGYLKIIRAIYDKPT ANIILNGQKLEAFPLKTGTRQG CLLSPLLFNIVLEVLARAIQEK EKKCIRLGKEEVKLSLFADDMI VYLENPIVSAQNLLKLISNFSKV SGYKINVQKSQAFLYTNNRQIE SQIMSELPFTIASKRIQYLGILT RDVKDLFKENYKPLLNEIKEDT NKWKNIPCSWIGRINIMKMAM LPKVIYRFDAIPIKLPMFTFFTELE KTTLKFIWNQKRARIAKSILSQ KNKAGGITLPDFKLYYKAIVTK TAWYWYQKRQDVQWNRIPS ETIPHICNHLIFDKPDKNKQWG KDSL FNKWCWEIWLAI GRKRK LDPFLTPYTKINSRWIKDFNIRP KTIKTEESLGMQDISMGKKFTS
10385	40753	A	10446	2	541	
10386	40754	B	10447	1	1533	
10387	40755	A	10448	753	1468	LVTSYLLPRHPDRGRGYHFD MGVWIKN*IKPMS*REQL*PWL PLKRSLICFLSAHFWLVVRRPK R\WCKPVQVSATFTVIADNNLY RQNSFVYSFTECTNDG*LAITSF CRDQAVRLVNEVFTGCCREICT /CATGYARRYGIDRSVLQSRPIH SQKK*NRSSLYSSGK*L*PALQC WWF/CTTSLPVIRVVKEILLPLL VSITVSLRVKYPRDMYSCLGTF LRSPVAIRIPLSRNQVKR
10388	40756	A	10449	753	1468	LVTSYLLPRHPDRGRGYHFD MGVWIKN*IKPMS*REQL*PWL PLKRSLICFLSAHFWLVVRRPK R\WCKPVQVSATFTVIADNNLY RQNSFVYSFTECTNDG*LAITSF CRDQAVRLVNEVFTGCCREICT /CATGYARRYGIDRSVLQSRPIH SQKK*NRSSLYSSGK*L*PALQC WWF/CTTSLPVIRVVKEILLPLL VSITVSLRVKYPRDMYSCLGTF LRSPVAIRIPLSRNQVKR

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10389	40757	A	10450	753	1468	LVTSYSLLPRHPDRGRGYHFD MGVWIKN*IKPMS*REQL*PWL PLKRSLICFLSAHFWLVVRRPK R\WCKPVQVSATFTVIADNNLY RQNSFVYSFTECTNDG*LAITSF CRDQAVRLVNEVFTGCCREICT /CATGYARRYGIDRSVLQSRPIH SQKK*NRSSLYSSGK*L*PALQC WWF/CTTSLPVIRVVKEILLPLL VSITVSLRVKYPRDMYSLGTF LRSPVAIRIPLSRNQVKR
10390	40758	A	10451	753	1468	LVTSYSLLPRHPDRGRGYHFD MGVWIKN*IKPMS*REQL*PWL PLKRSLICFLSAHFWLVVRRPK R\WCKPVQVSATFTVIADNNLY RQNSFVYSFTECTNDG*LAITSF CRDQAVRLVNEVFTGCCREICT /CATGYARRYGIDRSVLQSRPIH SQKK*NRSSLYSSGK*L*PALQC WWF/CTTSLPVIRVVKEILLPLL VSITVSLRVKYPRDMYSLGTF LRSPVAIRIPLSRNQVKR
10391	40759	B	10452	1	2259	
10392	40760	B	10453	1	684	
10393	40761	A	10454	1	1419	
10394	40762	B	10455	1	462	
10395	40763	B	10456	1	915	
10396	40764	B	10457	1	1659	
10397	40765	A	10458	1	1659	
10398	40766	A	10459	1	1224	MIVYLENPIVSAQNLLKLISNFS KVSQYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYPGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNIPCSWVERINIVKM AILPKTAKNGPVLPLHSEEKIP FN\FH*LFR*TITATKA*QKRR* MCQNLMTN\QNQRSGRSQIYF* RRRKNISDRSAVYR*RQLYIRR QPYAERPSHVEDKGHKYLVFE ANTGTENGYQGEESLFNKAYY GGGTNFFCKESQKLQQSAKKR DAELANGALGIIELNNDYTLKK VMKPLITSNTVTDEIERANVFK MNGKWYLF\TDSRGSKMTIDGI LPISDPTIKQDFRLLGQTSVDRL LQLSQGQAVKGNQLLPVSLVK RKTTLAPNTQTASPRALADSLM QLARQVSRLESGQ

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10399	40767	A	10460	1	2241	MEDEMNMKQEEKFREKRIKR NEQTLQEIWDYVKRPNLHLIGV PESDGENGTKLENTLQDIIQENF PNLARQANVQIQEIQRMPQRYS SRRATPRHIIVRFTKVEMKEKM LRAAREKDRSMRQKVNKDTQE LNSALHQADLIDIYRTLHPKSTE YTFFSAPHHTYTKIDHILGSKAL LRKCKRTEIITNYLSDHSAIKLE LRIKNLTQNRSTTWKLNLLLN DYWVHNKMKAEIKMFFETNEN KDTTYQNLWDAFKA/EIQTTHK EYYKHLIYANKLENLEEMDKFL DTYTLPRNLNQEEVESLNRPTG AEIVAIINSLPTKKSPGPDGFTA EFYQRYKEELVPFLKLFQSIEK QGILPNSFYEAETILPKGRDIT EKENFRPISLMNIDAKILNKILA KRIQQHIKKLIHHDQVGFIPGM QGWFNHKSINVIQHINRAKDK NHMIISIDAEKAFDKIQQRFML KTLNKLIGDGYFKIIRAIYDKP TANIILNGQKLEAIPKAGTRQG CPLSPLLFNIVLEVLARVIRQEK EIKGIQLGKEEVKLSLFADDMI VYLENPIVTAQNLLKLISNFSKV SGYKINVQKSQAFLYTNNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEIKEDT NKWKNIPCSWVGRINIMKMAIL PKVIYRFNAIPIKLPMTFFTELE KTK\FIWNQKSAHITKGILSQKN
10400	40768	B	10461	1	1254	
10401	40769	A	10462	551	868	SIQHWSRISSRLVYRSKAVAAA LLPMNCSLWSTQAGFLPRFG*R *TRHLSTIEPEDYNLLFRRVSLK LSVWLPTWQSKSNGWSQKCL WMHLKFDSLNALLPPTGF
10402	40770	A	10463	1	2985	MEDEMNMKREGKFREKRIKR NEQSLQEIWDYVKRPNLHLIGV PESDVENGTKLENTLQDIIQENF PNLARQANVQIQEIQRTPQRYS SRRATPRHIIVRFTKVEMKEKM LRAAREKGHCNSGKSHRSLWE QNKGIFTTCICDDAEDLQSPSTA GPWFGVLYTKGGPYQPQEDIFSE EVHTGPKLRKKIQEYQLTSKWS KSDVQVSVERRMAGGNPNQCH IGEVLLDGFTAIFYRRYKEELV PFLKLFQSIEKEG
10403	40771	B	10464	1	2277	

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10404	40772	A	10465	1	1064	
10405	40773	B	10466	1	1827	
10406	40774	A	10467	1186	1208	ATKMOVRLSVAALVQRMKEFCA AKFPAVITCWWSVWAQSA*WR *CWRKTKI
10407	40775	B	10468	1	1992	
10408	40776	A	10469	1488	1920	RVRVTAVITERDCVSRSRWTAV IVRHCTGRSLPAASTVKQYRTS CWERWN/CRFGNDLPSSPVEWL TDN/EFMLPG**NTPVRPDVGL PT*TRAACQESRCN/RLTPGIVL EIIGVWMQROWSLECLRAIPCIFG WLPRVVGEESGA
10409	40777	A	10470	1	1659	
10410	40778	A	10471	1	987	
10411	40779	A	10472	1	1278	
10412	40780	B	10473	1	1556	
10413	40781	A	10474	1	1905	
10414	40782	A	10475	644	949	MRKPTLGRTYPSRPPSPAAARG ASRAALGPGHGLETRKSAPCTI MFRICIAGCCWLPCGTPTSVLT KRWH*P*VIFLWSRRIHTASCLP SQRSITGHVHHQ
10415	40783	A	10476	1	1217	
10416	40784	A	10477	83	1134	
10417	40785	A	10478	2450	2607	

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10418	40786	A	10479	1	2604	MPLRAFNPVSSFRWARGMTIV AALMTVFFIMQLVGQVPAALW VIFGEDRFRWSATMIGLSLAVF GILHALAQAFVTGPATKRFGEK QAIAGMAADALGYVLLAFAT RGWMAFPIMILLASGGIGMPAL QAMLSRQVDDDHQGLQGS AALTSLSIIGPLIVTAIYAASAS TWNGNRACSSSVTRIVSILSRFI GIITPMNRNPPYTEASVTKQEK TALNMARFIRSQTLTLEKLNE LDADEQADICESLHDHADELYR SCLARFGDDGNSYDHDYAKLA CLQVEGRGGGTFAHELLAVEY AGWISPAFRLKVNQTIDYRTG RLQPAIPQSLPEALRLAADLAE QKQRLEQKMLMDAPKVEFAER VATASGVLIGNYAKVLGLGQN YLFTWLRDNGILI/CNR*TQERP QTRIHISWVFH/LLKKP*SIQAM EAG/LSFTTRITGKGQQWLMKR LLDARNRDYKQWKQDFHDS YNRQSAGHILSQCANLAATTSE YFIHKPHRLIAAETGYSQSTVV RAFREAVNKGILSVEIVIGDHRE RRANLYRFTPSFLAFAQQAKNA LIESKLKISSAATKVAVLAKTL ALFNFLSTPPCQNDTPSPCQDD VAIKNKKSQVKKTKRSVSGGA GTSLKKLTSWIAKAKAKADN LRLSKKRTQKHEFKQKVEAAA RKYAYLKNKRSPDIGGISNFDN
10419	40787	A	10480	1	2559	

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10420	40788	A	10481	1	1676	MLNGEKLAVKQEALLAAISEK DANIALLELSSSKKKTQEEVAA LKREKDRVLVQQLKQQVEGRGG GTFAHELLAVEYAGWISPAFRL KVNQTFIDYRTGRLQPAIPQSLP EALRLAADLAEQKQRLEQKML MDAPKVEFAERVATASGVLLIG NYAKVLGLGQNYLFTWLRDN GILIATGERRNVPKQEYISRGYF TLKETVIDTSNGSRJSFTTRITGK GQQWLMKRLLDADVVRTTSIV MLAKVTFLLSCITMSDFTFSGYE LACFVTHSGLSRSAGHILSQCA NLAATTSEYFIHKPHRLIAAETG YSQSTVVRAFREA VNKGILSVE IVIGDHRERRANLYRFTPSFLAF AQQAKNALIESKLKISSAATKV KAVLAKTLALFNFLSTPPCQND TPSPCQDDVAIKNKKSQVKKTK RSVSGGAGTTSLLKLT SWIAKA KAKADNLRLSKKRTQKHEFKQ KVEAAARKYAYLKNKRSPDIG GISNFDNLPHCMTVNEALNAVL AKNKDNEQWGAVAGAYIADIT DGEDRARHFGMLSACFGVGM VAGPVAGLLGAISLHAPFLAA AVLNGLNLLGCFMQESHKG ERRGELLKIVVLPGDHVGQEIT AEAIVLKAISDVRSNVKFDDE NHLIGGAIDLQGGGGKPRCVS KSLMLH/CWHSCRLEPRWR*QR VQRIRL*VHP*AFFAPAVAFALP
10421	40789	A	10482	1	3213	
10422	40790	A	10483	1089	1373	
10423	40791	A	10484	2720	2968	TTTLVRLPCRSPKRRIKALRSQL RRKSILKPLLS*SR*STTK*RNTP CSQVSSLSRLSTRYRRRMKHSV NLVWTWVPYSSAP
10424	40792	A	10485	2	2264	
10425	40793	A	10486	1693	1980	
10426	40794	A	10487	1776	2026	SLETRKSAPCTIMFRICIAGCCW LPCGTPTSVLTKRWH*P*VIFL WSRRIHTASCLPSQRSSNRACSS SVTRIVSILSRFIGI
10427	40795	A	10488	1323	2064	
10428	40796	A	10489	53	243	WTVPLGAVPPVRMHEGLGCW CKLNGEVCMGSMCLLCWWDC D*RHDLKANLDRLMNVQCQDGR KR
10429	40797	A	10490	1	3117	
10430	40798	A	10491	1	1227	

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10431	40799	B	10492	1	2119	
10432	40800	A	10493	938	1147	SLETRKSAPCTIMFRICIAGCCW LPCGTPTSVLTKRWH*P*VIFL WSRRIHTASCLPSQRSITGHVH HQ
10433	40801	A	10494	1	2822	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MEDFNTPLSTLDRSTRQKVNK NTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAYKRKQERSKIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAELEKETQ
10434	40802	A	10495	2	163	
10435	40803	A	10496	4051	4355	MRKPTLGRTPSRPPSPAAARG ASRAALGPGHGLETRKSAPCTI MFRICIAGCCWLPCGTPTSVLT KRWH*P*VIFLWSRRIHTASCLP SQRSITGHVHHQ
10436	40804	B	10497	1692	1781	
10437	40805	B	10498	1	3477	
10438	40806	A	10499	179	439	KKELVNLTTD*SLENR/WIDVL GPEKRRRTTQEKIAIVQQSF/G TGDDGLPRCPATWCSSQPVISL A*AIPGRKSYCCRRRTGCSCSCL
10439	40807	A	10500	1	7456	MYQANGKQKKAGVAILVSDKT DFKPTKIKRDKEGHYIMVKGSI QQEELTILNIYAPNTGAPTFIQQ VLSDLQRDLDSHTLIIGDFNTPL STSDRSTRQKVNKDTQELNSAL HQADLIDIYRTLHPKSTEYTFFS APHHTYSKIDHILGSKALLSKC KRTIITNYLSDHSAIKLELMIK NLTQNHSTIWKLNNLLLNDYW VHKEMKAEIKMFFETNENKDT TYQNLWDTFKAVCRGKFIALN AHKRKQERSKIDT
10440	40808	A	10501	2476	2718	WPLRGRGGHRAAPGRHLHLQQ RLLRLHLTACLLQDALDG/GP PRCWRGSCRWRCSAGPPRSWA RRPSATRSPSWPALECS

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10441	40809	A	10502	2	4517	HRLANWIKSQDPSVCYIPETHL TCRDTHRLKIKGWRKIYQANG KQKQAGVAIHISDKTDFKPTKI KRDKEGHYIMVKGSIQQEKLT LNVYAPNTGAPRFIMQVLSDLQ RDLDSTLIMGDFNTPLSTLDR LTRQKVNKDTQELNSALHQVD LIDIYRTLQPKSTEYTLFSAPHH TYSKIDHILGSKALLSKCKRTEII TNYLSDHSAIKLELRKKLTQIR STAWKLNNLLLNNDYVWHNEM KAEIKMFFKNNEN
10442	40810	B	10503	88	501	
10443	40811	A	10504	1	971	MWALFMIRNVKKQRPVNLDLQ TIRFPITAIASILHRVSGVITFVA VGILLWLEYRLSYLKGSSKLR DYGQLLTLEIPAALLPIHTGIVN QNINCTETLTASSDNLLRR AFC GDTHLHEVHLNTLFFNHFLCFA VIFDETRNKDICATSGQHAHFV DKKRKRELLSHMIGKGNWQQV LVFTRTKHGANHLAEQLNKDG IRSAAIHGNKSQGARTALADF KSGDIRVLVATDIAA/RGLDIEE LPHVVNYELPNVPEDYVHRIGR TGRAAATGEALSLVRSFFDWC DDCAAAGGMGNRNAQLADGI YHLRCIELYLGDMADFL

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10444	40812	A	10505	1	2201	MSFDSLGLSPDILRAVAEQGYR EPTPIQQQAIPAVLEGRDLMAS AQGTGTGKTAGFTLPLLQHLITR QPHAKGRRPVRAILTPTRELA AQIGENVRDYSKYLNIRSLVVF GGVSINPQMMKLARGGVVDLV ATPGRLLDLEHQNAVKLDQVEI LVLDEADRMLDMGFIHDIRRVL TKLPAKRQNLFSATFSDDIKA LAEKLLHNPLEIEVARRNTASD QVTQHVHFVDKKRRELLSHM IGKG\NWQQVLVFTRTKHGAN HLAEQLNKDGIRRAAKHGKNC KCAYSKFQKPSPHFTMLIGVC GVNQSAITNVSNVSNMAKISGS GSHRLTKRVIKRDMPINHPV AYSRRRLQTELLFWHARWLN HTRRQFRIKEGDNGGQCFLFW TGRFNFNLPSFGRIQHQQRNNA VGFSLGAFVITFIAGRACMPSLF VISTVCLTMVYVFPAYDGV GRFYRASGSSLPVALQYTPNGA SRRYNQWRPSRMLSSLKKQKW RKGMSSESLHLTRNGSILEITLDR PKANAIDAKTSFEMGEVFLNFR DDPQLRVAITGAGEKFFSAGW DLKAAAEGEAPDADFGPGGFA GLTEIFNLDPVIAAVNGYAFG GGFELALAADFIVCADNASFAL PEAKLGIVPDSGGVLRPLPKILPP AIVNEMVMTGRRMGAEELR WGIVNRVVSQAELMDNARELA
10445	40813	A	10506	1	168	MCEKNLAYAHKVKAALKGA SPGDFPREDETWNWEGRFTLA DLNIHGKRALGMDV
10446	40814	C	10507	1	3861	
10447	40815	A	10508	1	7407	
10448	40816	A	10509	290	661	QPLPEGRW/THLWHNDEL DGS RWHK/QQHGFSLSPVYVRDNT LRALGNNDQRPDYVWHE/GTA FHLFN\LKAAARTGNTITAI DASE ANNWTLCLRNGVKVNGLQDG SQAESQGLVVKPQGNALTITL
10449	40817	A	10510	3	510	KFHFMSPFPAHSMVQALE*LYA LGGLDKDCRLTEPLGMRIAEP LNPMFAKMLLESGNFGCSQEIL SIAAMMQIQNIFVPPNHKSHAI RVHRKFAVEEGDHLTMLNIYE AFIKHNKDSKWCQEHLNYKG LVRAATVREQLKLLVKFQVP RKSSEGDPLVLR C IVS

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10450	40818	A	10511	1	1920	MIWGRAWWLTPVIPALWAAK VAGRVAEERGAVLGHEVGYCI RFDDCTDQLATRIKRLTESFSLI LSVIMLDEAHERTLYTDIAIGLL KKIQKKRGDLRLIVASATLDAD EEVETVVSMLEIARALARTG MKRHLRLVLPYAGLPSFEQMK VFERVSRVRKVIVATNVAETSI TISGIVYVIDCGFVKLRAYNPRT AIECLVVVPVSQASANQRAGR GGRSRSGKCYRLYTEEAFDKLP QSTVPEMQRSNLAPVILQLKAL GIDNVLRHFHMSPPPAQSMVQA LELLYALGSLDKDCRLTEPLG MRIAEFPLNPMFAKMLLESNGF GCSQEILSIAAMMQIQNIFVPP NQKSHAIRVHRKFAVEEGDHL TMLNIYEAFIKVSTTTARSAAST HHPLEHNKDSKWCQEHFLNYK GLVRAATVREQLKKLLVKFQV PRKSSEGDPLVLRICIVSGFIFA NAARFHSTGAYRTIRDDHELHI HPASVLYAEKPPRWVIYNE\LL QTSKYMRDVTAIESA WAVGS WLHTFYSTRERTCSLESQKGPR SRDPLRREPTVYSCRDCWRPLL HAAAPGPRWGELAPAPVECLV ALKWAAACSLVLSSRCPQHLH PCWDPGGLCAWAGILLCCSGQ SGSWLTQHAH
10451	40819	A	10512	3	414	
10452	40820	B	10513	62	1408	

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10453	40821	A	10514	1	1388	MGTSSIFLCVFLFCGALGLTMS PARGRLRCYICGFTKPCHPVPT CRDDEACGISIGTSGCRGIFQVP DGQRDSRSHFPADVTKITWAC GQSPPGFKPLFPSCSSPKTGQM DVLIDLDFGFELNRNGIWGEA IRDTEEKSAADNLEPCSSPPPLEE VICCEGNAGFYEVGCVSTPLEA GYSVLGWNHPGFAGSTGVFPF QNEANAMDVVVQFAIHLFFH PQDIIYALAIGGFTATWAAMS YPDVSAMILDASFDDLVLALK VMPDSWRGLVTRTVRQHLNLN NAEQLCRYQGPVLLIRKTQDG NLTPTVP\KDICSNRANCLLVKA LQ\HRYPG\VMAEEGLLVARQW LEASSQLEEASIYSR\WEVEED WCL\SVLR\SY\QAEHGADFPW\ SVGEDMSA\DGR\RQL\ALFLAR KHLHNFEATHCTPLPAQNFPRC PWHPLGTQLGLIMEEWGERRH
10454	40822	A	10515	1	1519	MGFLPKLLLLASFFPAGQASWG VSSPDVQGVKGSCLLIPCIFSF PADVEVPDGITAIWYYDYSGQR RVFMGNPEHRVCNLLLKDLQP EDSGSYNFRFEISEVNRWSDVK GTLVTVTARSLSPGRHLETLH MAMSWQDHGRILRCQLSVAN HRAQSEIHLQVKYAPRGVKILL SPSGRNILPGELVTLTCQVNSSY PAVSSIKWLKDGVRQLTKTGV LHLPQAAWSDAGVYTCAENG VGSLVSPISLHIFMAEVQVSPA GPILENQTVTLVCNTPNEAPSD LRYSWYKNHVLEDAHSHTLR LHLATRADTGIFYCEVQNVHG SERSGPVSVVNHPPKTPTMM VFVEPEGGLRGILDCRVDSEPL ASLTLHLGSRLVASSQPQGA EPHIVLASPNALRVDIEALRPS DQGEYICSASNVLGSASTSTYF GVRALHRL/LSVPAAALGPGTA/ VWASCSCCWA WGPATPGGTG YYLTGTYKSGGQTQMLASL
10455	40823	A	10516	3	615	
10456	40824	A	10517	373	631	SGGPD TDVVSIPYSCSRMHLCS *LCELLSFSWETLCRAVKENEL PKKE*RAPANQGPTGESSLSGL SDSPLQPGGDGVEERRALLF

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10457	40825	A	10518	1	5521	MANRFRSGEDSGGAIWQDCVE EGASELGFLESLLYTQGNDRKQ CSLTNQGRQVFALLMLRKGHL HVFVILFGPAGPAPPQPLPSVEQ VPLSLVPGPKGVA VSRTPPFFH QVHDCPFQDPK WEEQGSWDKI AALAIAELTLTSPVARDTSDPQ CAQQA AFLHGQASWGVSSPDQ VQGVKGSCLLIPCIFSFPADVEV PDGITAIWYYDYSGQRQVVSHS ADPKLVEARFRGRTEFMGNPE HRVCNLLLKDLQPEDS
10458	40826	A	10519	1	1149	
10459	40827	A	10520	111	370	SHRRSLGEAARHPSFRPAGTAF E*VSQKV VHPRDLED RSACVPV GCSLTRESFFRLNNQPHGTRFLP IPSNPESSRRAVPSAHLTV
10460	40828	A	10521	1	220	
10461	40829	A	10522	654	967	
10462	40830	A	10523	2	1415	
10463	40831	A	10524	2	293	CGKAFTQHSRLIQH/QRMHTGE KPYEYWEFGEKPRIYLQRKTFM KLDTTTGEGQSYQRNQMPCEP YGEKPKCKCECGKSFRR/SSELT RHQRAHTGEKP
10464	40832	A	10525	51	378	GDFSPQKPPMAPHGCLTYLAFQ KVKEGKKEKKEKKRKKERK KERKKERKKERKKERKRKEKK E\EGKEGRKEGRKEGRKEGRKE KKEISKKEIVAPTS LNPLKCSVL
10465	40833	A	10526	1	235	
10466	40834	A	10527	545	793	NKEMHWPCTGLCSHQPWGFK DCSLLE*RLPGQQEQNSIERKK RKKEKKEKKEKRKKRKGKKE ERKKERKYHFILL LGMPTS
10467	40835	A	10528	127	376	
10468	40836	A	10529	3	710	EPG/NPERLK/GFSYPEFEDLDA LFSTLGLNEESVDSFDDYLPRR GVDSFGDKYQD/RCNSDQYHD GCQDRFRDGS HQDMGQCGGR D*DDD*GSRDYDRGYDSATGS CRRAFSGSYLRDDDY\WESSET EQQPPTGSEGKVPPVQPSEERP AKKDENV DGMN/APKVQSGN SGRGP GDGKNKDCWRES DRKD GKKDQVCRSAPESKKPEENPAS KFSSASKCAAVSVDGEDEKEG

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10469	40837	A	10530	1	548	MQRSENDILGMDLRPLICIKDE KEEVGEKEEGEKEEECEEQEE EGGKEWEEPGNYHLGQSLSHD WQSSETEQQPPTGSEGKVPVQ PSEERPAKKDENKVDGMN/APK VQSGNSGRGPGDGGNKDCWRE SDRKDGKKDQVCRSAPESKKP EENPASKFSSASKCAAVSVDGE DEKEGADYTK
10470	40838	C	10531	37	289	
10471	40839	A	10532	1	1062	
10472	40840	A	10533	1	1977	
10473	40841	A	10534	1	2050	LPLLHAGFNRRFMENSSIIACYN ELIQIEHGEVRSQFKLRACNSVF TALDHCHEAIEITSDDHVIQYV NPAFERMMGYHKGELLGKELA DLPKSDKNRADLLDTINTCIKK GKEWQGVYYARRKSGDSIQQH VKITPVIGQGKIRHFVSLKKLC CTTDNNKQIHKIHRDSDNSQT EPHSFRYKNRRKESIDVKSISR GSDAPSLQNNRYPSPMARIHSM IEAPITKVINIINAAQENSPVTV EALDRVLEILRTTELYSPQLGTK DEDPHTSDLVGGLMTDGLRRL SGNEYVFTKNVHQSHSLVAMP INHSMDEVPPCISQLLDNEESWD FNIFELEAITHKRPLVYLGLKVF SRFGVCEFLNCSETTLRAWFQV IEANYHSSNAYHNSTHAADV HATAFFLGKERVKGSLDQLDE VAALIAATVHDVDHPGRTNSF LACNAGSELAVLYNDTAVLES HHTALAFQLTVKDTK\CNIFKN ID/RGNHYRTLRLQAIDMVLATE MTKHFEHVNFVNSINKPMAA EIEGSDCECNPAGKNFPENQILI KRMMIKCADVANPCRPLDLCE WAGRISSEYFAQTDEEKRQGLP VVMPPVDFRNTCSIPKSQISFIDY FITDMFDAWDAFAHLPALMQH LADNYKHWKTLDDLKCKSLRL PSDRLKPSHRGGLTDLKGHCES
10474	40842	A	10535	2	445	ERTFNCCYPGCHFKTVHGMKD LDRHLRIHTGDKPHKCEFCDKC FSRKDNLTMHMRCHTSVKPHK CHLCDYAAVDSSSLKKHLRIHS DERPYKCQLCPYASRNSSQLTV HLRSHTGPGPADLLEHSRLHQ ADHPEKCPECSYSCSSAA
10475	40843	A	10536	1	957	

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10476	40844	A	10537	1	1438	MSRRKQAKPQHLNSEPRPARR ECAEVAPQVAGEPASELDDDV PKANCLSTESTDTPKAPVITLPS EAREQMATLGERTFNCCYPGC HFKTVHGMKDLDRHLRIHTVP FCFSKVYWNGFQLGMISPPKGT MSGDIFDCYNWRRKGSTGICIW TGGGGTPICPGYHLGQIFVAILT KKPLTLTPYVFEGDKPHKCEFC DKCFSRKDNLTMHMRC\HTSV KPHKCHLCDYAAVDSSSLKKH LRIHSDERPYKCQ\VCOPYASRNS SQLTVHLRSHTA\GDTPFQCWL CSAKFKISSDLKRHMIVHSGEK PFKCEFCDVRCMTKANLKSHIR IKHTFKCLHCAFQGRDRADLLE HSRA/LHQADHT\EKCEPCSYSC SSAAALRVHSRVHCKDRPFKC DFCSFDTKRPSSSLAKHVDKVHR DEAKTENRAPLGKEGLREGSSQ HVAKIVTQRAFRCETCGASFVR DDSLRCHKKQHSQDQSEKQNL
10477	40845	A	10538	1	1427	MIAFDSMSHIQVMLMQEESTAP ATLEHILGHSQLCGSDGLAHAA VWVLAHLHYWFTGLSPGPM VLPLHPAIISSFFHLWRVAFISKA GKPRAAGHLLKRFLRCQFQRA ASSLLFTTVEAMLGTESGTEKV MRGAGTWYHIIENWPSAECV WTEEQQGRGQEDSAEDRKLF VGMLNKQQSEDDVRRLEAFG NIEECTILRGPDGNSKGCAFVK YSSHAQAQAINALHGSQTMP GASSSLVVKFADTDKERTMRR MQQMAGQMGMFNPMAIPFGA YGAYAQALMQQAALMASVA QGGYLNPMAAFAAAQMQMA ALNMNGLAAAPMTPTSGGSTP PGITAPAVPSIPIGVNGFTGLP PQANGQPAAEENFANGIHPYPA QSPTAADPLQQAAYAGVQQYAG PAAYPAA YGQISQAFQPPPMIP QQQREGFVSFDNPASAQTAIQA MNGFQIGMKRLKVQLKRPKDA NRPY

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10478	40846	A	10539	1	547	AAAPMTPTSGGSTPPGITAPAV PSIPSPIGVNGFTGLPPQANGQP AAEAVFANGIHPYPAQSPTAAD PL\QQAYAGVQQYAGPAAYPA AYGQISQIAFPQPPMIPQQQRE GPEG\CNLFYHLPQEFGDS\EL MQ\MFLPFGFRE/RFDNPASAQT AIQAMNGF\QIGMKRLKVQLKR PKDANRPY
10479	40847	A	10540	96	1080	WFKCYGCNSS/RDWQRSTYLLS WEVR/G/RPVPDSGCKAVVALC SQPAHPSNICKGVGGCLTK\HLL LMGAMGIRVACLEVWRDGEER GGEEATFFTSLAERQVGTABRH LHQPALYIQIRKVPAALHMCVV QKPSLFQADSRAPLEQGLRQQA SLATARPIVSGANAGPAGLKVP QAAQLQLSPYLHRGVGDEACR YGRSQPTRKAFALCICAAPALP CPALDGSWMVCGLGQETRTSL ANVQSFTQRPQQQPLTVWMLN RGRKPAQGTLTVICPIGPHLLT STITESVCVPRRNKYHSRTLPA AQHCQWLVTAVPTALGLVIRA GSKKLC
10480	40848	A	10541	1	392	
10481	40849	A	10542	1	110	FFWSHS*VYYTCFLLQN*KHLK PGPSGSLSPSISGN
10482	40850	A	10543	1	978	MAAATRGCRPWGSLGLGLV SAAAAAWDLASLRCTLGAFCE CDFRPDLPGLECDLAQHLAQ HLAKALVVKALKAFVRDPAPT KPLVLSLHGWTGTGKSYVSSLL AHYLFQGGLRSPRVHHFSPVLH FPHPSHIERYKN\DLKSWVQGN LTACGRSLFL\DEMDK\MPPGL \MEVLRPFLGSSWVVYGTNYR KAIFISNTGGEQINQVALEAW RSRRDREEILLQELEPVISRAVL DKPAPLPSPNSGHHWKERLLD AVVPFLPLQRHHVRHCVLNEL AQLGPGAKGMRVVQAVLDSTT FFPEDEQLFSSNGCKTVASRIAF

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10483	40851	A	10544	1	560	ATSPHQSQSTVDVGQLHDPQP YPQHAIQVQHIQVSEPTASAPSS AQQSSSTQGGGLQQQQQQQQ NSSVQHTYLPSA WNSFRGYSSE IQMMTLPPGQFVITDSGVATPV TTGQVKAVTSGHYVLSESQSEL EEKQTSALSGGVQVEPPAHS LDPQTNKQQQTQYIITTTNG NGSSEVHITKP
10484	40852	A	10545	3	205	
10485	40853	A	10546	2	348	ADQARGKPTWAVSATQFQLD FPIT*CYGLL*QVRSSRHIGALQ GKPVPLLVLLYPITPREGGLG DRARLCLKQQQQQQQQQQQQ QLLLLLLLLLLLLLLLQQCEGT EGRPPFD
10486	40854	A	10547	1	1146	MVTYKLVLRGCESTWNLENH FSS\WQKRA/IRILWTVLDAIDQ MRLPVVRTWCLKWHYGLA GLNKAETSAKHGEAQSNISKGC RYADLTEDQLSSGESLKEIVPQI KEGKWVLTAAHGNSLRGIVKH LEGLSEEAIMELNLPTGIPIVE LDKNLKPMPQFLGDEVTLC AMEAVAAQSKAKRRPAGML LSPGTPSLAIPSSAPAPCTCHTD HIWNSPVYSDAILRANPFCVHI SKANYLVNELHTAVNVAGLYI GWRCPHYLWDCFRIGDESRCF CGHLLREHRIISDISVPCKVSQC RCFMFCFIPSRPEEVGCCCGCFE SNFLCAACDRRWEEHETFFDTQ KTRQRGGRPRGADYVPFAEMA VLREAILSNSDF
10487	40855	A	10548	2	516	GRLNERHYGGLTGLNIAETAA KHGEAQVKIWRSSYDVPPPPKE PDHPFYRNIRMDRRYADLTED QLPSCESLKD TIARALPFWNEEI GPQIKEGKRVLIATHGNSLRGIV KPWEGLSEEAIMELNLPTGIPIV YELDKNLKPMPQFLGDEET VRKAMEAVAAQGKAKK
10488	40856	B	10549	123	237	

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10489	40857	A	10550	1	952	PAAPQVAGRLGLGCPHLHVF AVVSAMLPLLRCVPRVLGSSV AGLRAAAPASFFRQLLQPAPRL CTRPFGLLSVRAGSERRPGLLRP RGPCACGCGCGSLHTDGDCAF VDFLSDEIKEERKIQKHKTLPK MSGGWELELNGTEAKLVKVA GEKIPVPFNNINNSIPPATFYGEKD PSQSQKVIEDREPELTSLPKFVV EVIKNDGGRKALVLDCHYPED EVGQEDAEESDIFSIREVSFQS TGESEWKDNTNYTLNTDSLDDWA LYDHLMDFLADRGVDNTFADE LVELSTALEHQEYITFLEDLQEV LSRAHRADRC
10490	40858	A	10551	1	879	AAGCRKENSLDLRSQFPRGRDS EDFNVKEEANAABEEIRYTHIL NRVLPPDIRILAWAPVEPSFSAR FSCLERTYRYFFPRADLDIVTM DYAAQKYVGTHDFRNLCCKMD VANGVINFORILSAQVQLVGQ SPGEGRWQEPFQLCQFEVTGQ AFLYHQVRCMMAILFLIGQGM EKPEIIDE\LLNIEKNPQKPQYSM AC\EFPLVLYACKFENVKWIYD QELRSSNITHLQQLWANHAVK THMLYSMLQGLDTPVPCGMG PKMDGMTEWGNVKSPIKQTQ CLCRRSEDAHI
10491	40859	A	10552	231	358	
10492	40860	A	10553	2	319	
10493	40861	A	10554	573	1660	MAAPTPARPVLTLLVALFGM GSWAANGIWVELPVVVKELP EGWSLPSYVSVLVALGNLGLL VVTLWRR LAPGKDEQVPIRVV QVLGMVGTALLASLWHHVAP VAGQLHSVAFLALAFVLALAC CASNVTFPLPFLSHLPPRFLRSFF LG\QGLSALLPCVLALVQGVG RLECPPAPINGTPGPPLDFLERF PASTFFWALTALLVASAAAFQG LLLLLPPPPSVPTGELGSGLQVG APGAEEVEESSPLQEPSSQAA GTPGPDPKAYQLLSARSACLL GLLAATNALTNGLPAVQSFSC LPYGRALPPGLWCWAVLPIP WACFLGHGCCAGPWQGWGG LLSAGRVLWGLPDGRWQS

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10494	40862	A	10555	154	850	QFFRVITCLPFKGPDYRLYKSEP ELTTVAEVDESNGEEKSEPVSEI ETSVVKGSHFPVGVPPRAKSP TPESSTIASYVTLRKTCKMMDL RTERPRSAVEQLCLAESTRPRM TVEEQMERIRRHQQACLREKK KGLKCFSVLSDDQSPLQSPSNLR DNPFRTTQTRRRDDKELDTAIR ENDVKPDHETPATEIVQLKETE PQNVDFS/IRGLLDGPSVSILPGR SIKRAKNQNS
10495	40863	C	10556	39	436	
10496	40864	A	10557	2	959	
10497	40865	A	10558	34	1044	QGC AVAGPLH PARLPCCVHGC PVRMH ALSLCHVRCHFAVTFR LMYLDWLPTVIEPCGVGSNKV PVVQH PHHVHPLTPLITYSNEH FTPGNPPPHLPADVDPKT/GMC SCGTGRCAVARTCRIRSCVPCE ALSPCDARGAHSAGIPRPPHPPD ISPYYP LSPGTQGGQPVYPITTGG FRHPYPTALT VNASMSRKHQD SKKEEEKKKPHIKKPLNAFMLY MKEMRAKVVAECTLKESAAIN QILGRRLGYNARAFGLKRGWR LDKYRGFVWEMAVWSLPPA FSFQGKKKKRKRDKQPGETND KPESL GASSLMVVGWNTYRN QEKHIPTLELDHTVSV
10498	40866	A	10559	2	398	
10499	40867	A	10560	174	362	
10500	40868	A	10561	14	266	
10501	40869	B	10562	67	474	

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10502	40870	A	10563	1938	3291	ERRKRFGMLDATDGPGETDAA LRMEVDRSPGLPMSDLKTHNV HVEIEQRWHQVETTPLEEKQV PIAPVHLSSDGGDRLSTHELTS LLEKELEQSQKEASDLLEQNRL LQDQLRVALGREQSAREGYVL QATCERGFAAMEETHQKKIED LQRQHORELEKLREEKDRLLAE ETAATISAIEAMKNAHREEMER ELEKSQRSQISSVNSDVEALRG QYLEELQSVHRELEVLSQYS AKCLENLAHLAQALEARQALR QCQRENQELNAHNQELNNRLA AEITRLRTLTTGDGGGEATGSP LAQGKDAH*LKGLMRVKESEI QYLKQEISSLKDELQTALRIDK KYASDKYKDIYTELSIAKAKA\ DC\DISRLKEQLKAATEALGEK'S PDSATVSGY\DI\MKSKSNP\DFL KKDRSCVTRQLRNIRSKSLKEG LTVQERLKLFEERDLKKD
10503	40871	B	10564	58	4405	
10504	40872	A	10565	3	156	NSSHCHHHHHHHHHHHQH QHNC\HQQHHYNNHYDYHH DDNYHHHHHHHH
10505	40873	A	10566	10	445	HRSTITRQCPSGLETRIALPPA VFPSGSRTLPSTPGSSSPQPR/P PLTRGPGPPRTHALASGTRGPA RGEEKVADTPHHGEGGCPNSE KEPFLHPTAPPPRLPTSPESGP VPHTLQQAPPLRRHLGGTPAGA PASPQSSEWGG
10506	40874	A	10567	1	288	
10507	40875	A	10568	50	542	TLSPERLSPELRLLPYMITLGDA VHNFADG\LA VGAAFAISWKT GLATSLAVFCHELPHELGLRP LAAPGAVPCA KELLNLASALT AFAGLYVALAVGVSESEAW\ LAVATALFLYVAICDMLPAML KVRDPRPWLLFLLHNVGLLGG WTVPADAVPVRG
10508	40876	A	10569	1	690	
10509	40877	B	10570	34	465	
10510	40878	A	10571	1	624	
10511	40879	A	10572	3	933	

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10512	40880	A	10573	1	1481	RRFPPAGAVAVIERGVRRGGSQR CRTMADQLYLENIDEFVITDQN KIVTYKWLSYTLGVHVNQAKQ MLYDYVERKRRKENSQAQLHVT YLVSGSLIQNGHSCCHKVAVLRE DKLEAVKSKLAVTASIHVYSIQ\K KAMLKDSGPLFNTDYDILKSNL QNCSKFSAIQCA\AAVPRAPAES SSSSKKFEQSHLHMSSETQANN ELTTNGHGPPASKQVSQPKGI MGMFASKAAKTQETNKETKT EAKEVTNASAAGNKA PGKGN MMSNFFGKAAMNKFVNLD EQAVKEEKIVEQPTVSVTEPKL ATPAGLKKSSKKAEPVKVLQK EKK\RGKRVALSDDETKETENM RKKRRT\IKLPESDNSEYEVFPD SSGAYEAESPSPPPSPPLEPVP KTEPEPPSVKSSSGENKRKRKR VLKSKTYLDGEGCIVTEKVYES ESCTDSEEELNMKTSSVHRPPA MTVKKEPREERKGPKKGTAAL GKANRQVSITGFFQRK
10513	40881	A	10574	1	100	

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10514	40882	A	10575	2	2271	PELLTEGVKEPIMDSQERDSGD PLVDESLKRQGFQENYDARLSR IDIANTLREQVQDLFNKKYGEA LGIKYPVQVPYKRIKSNPGSVII EGLPPGIPFRKPCTFGSQNLERIL AVADKIKFTATRPFGQLIPKPD EDDANRLGEKVILREQ\IKELF\ NEKLR*GPWGLNRPVLVPYKLA IRDSPDAVEVGPLDDIPRNP TYDIHRLEKILKAREHVRMAIIS QLQLLQQQHHISEGRPF AEIC NDAKVPGESEARKPPFCPVGTR LFLKKREPEVSMNKDRYPQE APRNLQSLRTLDDILDDPRGGC VHLRQSQSRWRGADTRELPRG MLEGLRQLLSAIGCPDPTCAP AQPGDQPLQRLAFTLANEPQTV LEKPPPRFRRRGAARSPEQLYTP RRGGVLP AEPERTQSASADAGS LACRALEVDSGCPTGPPCPKGS RRLTITSGVDCGLLKQMKLEQ EKVVLLQGLEMAGSRLQRLQ PVQDRQCRLGQSRASADFGPA GSPHPLGRLLPKVQEVARCVGE LLAAAGASRALPTSSSGPLCPA LTFTSFPGWQQQTILMLKEQNR RLTQEVTEKSGRVMQLEQKSA LIMKQLFEAQALSQQDGEASGL HLHLARLGWAEPQGSSVTQPFE GGRPVSPNVSGWRPPAAQAVP EWAPSCPTCHPGFPGPPAGPR TEPLTRFWLLVLTWAGALLSLH
10515	40883	A	10576	346	3136	ALRTKRLWPGGHCRAEAPQWP P/ASPLAPATALAAHSRHLSLCR SDKGSMSEDCGPGTSGELGGLR PIKIEPEVLDIIQVTVPDALPTSE EMTDSMPGHLPSSEDSGYGMET LTDKKWTWDGAKAIGISEPIKV LYSKFLMHPEELFVVGLPEGISL RRPNCFGIAKLWKILEASNSIQF VIKSGEEIRWDRELFRCRACSM GGSLQIAKSYTTGLESKSCDP AVESKASAGQDEMOPHARPKL LTEGVKEPIVD
10516	40884	A	10577	60	352	
10517	40885	B	10578	1	720	
10518	40886	B	10579	1	1478	
10519	40887	B	10580	1	1895	
10520	40888	A	10581	2	413	

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10521	40889	A	10582	2	969	WGSWAPQSRGCPYQPGAAQGR ALAPQHRGSCSPWTGGGKE/Y LMRAHFGLPSVEAEDKEGKPP SVKFEIPYFTTSGIQVRLAPGSL YGRKRSSLGKSHPSLLQVDGQ YSQQQGAGHPRGTRGSQTPG ARQRVEPGKCWPVVCVPHVPC PPTSTALRKHLRPQRAIYTSRLA PGALGGHCSVCLLPGLAGLAC GAFPGPAWVTRCCHSARSVLT HQGAPPDPITVPARLPEPEVE VSCRGRRPALLNAQSPPSLPPP PPSAAAEASCSSHVRQRRRLRAG PEGQGFYLFHDRNKHSILKLAK PREPFCVVTDSRIQFGPPH
10522	40890	A	10583	50	1083	NPRAIFKSVRTCVPPTQPCRN KARSCGVGAGTTSFTLSVWPH RYITQEGHKLETGAPRPGTVT NAVCWRSEGIKYRKNEVFLDVI ESVNLLVSA\NGNVLRSEIVGSI KMRVFLSGMPELRLGLN\DKVL FDNTGRGK\SKSVE\LEDVKFHQ CVRLSRFENDR\TISFIPPDG\EFE \LMSYRLNTHVK\PLIWIESVIEK HSHSRIEYMIKAKSQFKR\STA NNVGDPHFPLPNDCLNPSFK\T TVGERLSWVPENSEIVWSIKSFP GGKEYLMRAHFGLPSV\EAEDK EGKPPDSVFKF\EIPY\LTSGIQ VRYLKIIEKSGYQALPWVRYIT QNGDYQLRTQ
10523	40891	C	10584	175	454	
10524	40892	A	10585	1	193	LLPRPGSLDFLLSPVLPS/HSAS WACPLPRSPMPSSCC*R*RKE MASGFSKGPTLGCCPTCPP
10525	40893	A	10586	2780	2965	SPSQGESIPT*WRPTGPSPTSSP GPA*SSLSPRSPSSASASPSMC VRPSMWAASLLKSL
10526	40894	A	10587	1	1502	
10527	40895	A	10588	1256	1990	RCAPMTTCAWASCCSPWPTPF GTGPPSTSVSTSWPWQPWGWG WL*VGAAPAGGRQHPSPPALPR RSSGRSKLSRPSLCQLVPIL*T RLLSPQKESLPWRGSWREFPL PQLNTLPATEADPGVSSLPSAQ RHLHSYKIKVLSRQESLAPAPA SGYPESTALPQNGRGPWAVGF GQIPFLCIHNVGRSLGAGPGSG KPLPCVFRSTFSSSHQYCRLGR KHNFHFTKGKLRCCGPGDGR

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10528	40896	A	10589	375	678	RCCCCTTRPARKCRTTMGIRHS TWPAPTATRTHSGSRSPGSTA ASPRGLCPRPALTDPCGHLSG LPVASV*AGSCPHVPGDQTTRK SGTVFPTQCTRP
10529	40897	B	10590	1	2452	
10530	40898	B	10591	1	1140	
10531	40899	A	10592	1	1617	
10532	40900	A	10593	1	1448	RERSCLHLVCIRCSCDVVEMGS VLGLCSMASWIPCLCGSAPCLL CRCCPSGNNSTVTRLIYALFLL VGVCVACVMLIPGMEEQLNKIP GFCENEKGVVPCNILVGYKAV YRLCFGLAMFYLLLSLLMIKVK SSSDPRAAVHNGFWFFKFAAAI AIIIGAFFIPEGTFTTVWFYVGM AGAFCFILIQLVLLIDFAHSWNE SWVEKMEEGNSRCWYAALLS ATALNYLLSLVAIVLFFVYYTH PASCSENKAFISVNMLLCVGAS VMSILPKIQESQPRSGLLQSSVIT VYTMYLTRS\CMTNEPETNCNP SLLSIIGYNTTSTVPKEGQS\VQ WWHAQGNIGLILFLLCVFYSSIR TSNNGQVNKLTLTSGESTLIGR WVGAR\SDGITGRDGGTDVSPE AVRINGK/RDGCSLYSYFFHF MLC\LASLYIM\MTLTSWYRYE P\SAWMESQWTA\VL/WVKISS WIGIVLYVWTLVAPLVLTNRDF
10533	40901	A	10594	3	343	GVLLCRL*QGQNYW/NFLQTK VTGNMRDKRTTPMPEFLHASW PNTELRYWKENCPEQKGP*PM MALS*GCPLWPAPNVTSSSKG WSPGQLWMYRFGRLRISSETG WSLWLT

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10534	40902	A	10595	1	2500	MEDAWGIRKETGRVKEEAKEV TGWGNNWRNVEKSSMSRKVK AARPGFKKLPMSTDIPPKCTIKD LLPKEKSSTEAVFHTVVLERHE SPDIEDFSFKEPQKNVHDFECQ WRDDTGNYKGVLMQAQKEGKR DQRDRRDIENTLMNNQLGVSF HSHLPELQLFQEGGKMYECNQ VEKSTNNGSSVSPLQQIPSSVQT HRSKKYHELNHFSLLTQRRKA NSCGKPYKCNECGKAFTQNSN LTSHRRIHSGEKPYKCSECGKT FTVRSNLTIHQVIHTGEKPYKC HECGKVFRHNSYLATHRRIHTG EKPYKCNECGKAFRGHSNLT HQLIHTGEKPFKCNECGKLFTQ NSHLISHWRIHTGEKPYKCNEC GKAFSVRSSLAIHQTIHTGEKPY KCNECGKVFRYNSYLGRHRRV HTGEKPYKCNECGKAFSMHSN LATHQVIHTGTKPFKCNECS\Q VFTQNSQLANHRRRIHTGEKPYK CNECGKAFSVRSSLTTHQAIHS GEKPYKCIECGKSFTQKSHLRS HRGIHSGEKPYKCNECGKVFA QTSQARHWRVHTGEKPYKCN DCGRAFSRSSLTFHQAHTGE KPYKCHECGKVFRHNSYLATH RRIHTGEKPYKCNECGKAFSM HSNLTTHKVIHTGEKPYKCNQC GKVFIQNSHLANHQRTHTEK PYRCNECGKAFSVRSSLTTHQA
10535	40903	A	10596	330	432	
10536	40904	A	10597	1	147	
10537	40905	A	10598	1	380	RTRGRGQRGKMELVQVLKRGL QQITGHGGLRGYLRVFFRTNDA KVGTLVGEDKYGNKYEDNK Q/FFWHRWLHSMDDPPTTKPL TARKFIWTNHKFNVTGTPEQY VPYSTTRKKIQEWIPPSTPYK
10538	40906	A	10599	9	536	VLKRGLQQITGHGG/LFRGYLR VFFRTNDAKVGTLVGEDKYGN KYEDNKQFFGDERLQASGLA LTLCEQTEEGSCLWSQRSLGK SQSMNFKNSKTRSFQRTVSAGK TKYYHPVVAGRQQARATCD HVDPRTEHGPAAWPYWPRL GLKHALLTFTVALQYRAQPLFR LPNLPL
10539	40907	A	10600	239	263	
10540	40908	A	10601	1	600	

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10541	40909	A	10602	1	1178	
10542	40910	A	10603	1	1038	MHLEVNSSPEPLDENLDNTVTS ALSGHEQRIQTSPLVLLTTKTEI LARFSQLQFPPEEQSSFAYPANC VKSKGMNTKLPLRPLKVCREL TIDSDRDILYRTLFMGDSGMGK VQFEFGEEVHIVIKSTGFGPFSS YATLEPFVAVQLWGGGQHYQ GQQPPMGMMGQVNQGNHMM GQRQIPPYRPPQQGPPQQYSGQ EDYYGDQYSHGGQGPPEGMN QQYYPDGHNDYGYQQPSDPEQ GYDRPYEDSSQHYYEGGNSQY GQQHDA YQGPPPPQQGYPPQQQ QYPGQQGYPKQQQGYGPSQG GPGPQYPNYPQQGQGGYGGYI PTQPGPPPPQQRPHYGYDQGGY
10543	40911	A	10604	130	213	LKVST*AMPLPR*TPSRRCQP*R TGTSP
10544	40912	A	10605	124	208	LKVST*AMPLPR*TPSRRCQP*R TGTSP
10545	40913	B	10606	140	589	
10546	40914	A	10607	1	302	
10547	40915	A	10608	2	98	
10548	40916	A	10609	2	190	
10549	40917	B	10610	1	856	
10550	40918	A	10611	123	1287	AFSLGK\MSEKKLFGPNGERMP FSKVKALCAGLQATVAAPKNA EENKAIQDVAKDTAFLGITDEA TEGQFMYLTTGGRLTYSNWKKD EPNDHGSGEDCVILLNGLWN GISCTSSFIAIFQWAHYQYRQAE NYPKGELHTLRVKLCGPSWPT NAIHFRSRLLMPLGPTVLLMTM AVFQLSQAVAMCSWCCGLVLP PAGCLQDKASKPRETQAQPG CVRGNFRIPSRQDFAAALARAL SGLDLWASLWVPFADFLGSSLS VPWFSYLENDEEDLTRLSRLN GERTFLESPGKKRIGAGTPPMS QEA VMLAVMERDPGQCRGEE GPTECRAMWPGWGGRHSLPGH PAMLC SFLGSDLEIRGSNGGWE PPFIPGLQPELARGIQGSGRGAE
10551	40919	A	10612	292	445	LSICLQSAVCTPGMD/PAAPCSL GILDWGTLPSTAEPGREGPADA WVDPGVR
10552	40920	A	10613	363	575	HLLPTQGALCPAEGWPAPWQG YTPTCDCAEDTTQLERAGQLPP VF*SCHRGGVSSQ*GSPGVPQL LHQPE

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10553	40921	A	10614	3	638	SSKLSGLTTNVVDIILAHHFGQE ELQANLDLIQTYRMHIAQDINQ DNLQLFLNSYNGRRDLEIERPIL GQNDNKSSTLKG\STLLVVGDN SPA VEA VVECN SRLNPINTTLAL KMADCGGLPPG*FSPGKLTEAF KYFLQGMGYIPLVLCYSTSGS MTSVARSR\THSTSSSLGSGESP FSRSVTSNQSDGTQES\CESPDV LDRQQTMEVSC
10554	40922	A	10615	3	1152	KSCFNAFFNFEDMQEITQHFAV CHVDAPGQQEGAP/SPFPTGYQ YPTMDELAEMLPVLTHLSLKS IIGIGVGAGAYIL\SRFALNHP ELVERPLCSLMVDPC/ALKGWIDW AASKLSGLTTNVVEIILAHHFG QEELQANLD\LIQTYRMHIAQDI NQDNLQLFLNSYNGRRDLEIER PILGQNDNKSSTLKCSTLLVVG DN SPA VEA VMADCGGLPQVVQ PGKLTEAFKYFLQGMGYIPVCA AQSP EHRVST\SASMTLARSRT HSTSSSLGSGESPFSRSVTSNQS DGTQESCESPDVLD RHQTMEIS LDDVLLSALLRNNGKSAQQKKI SAKPKLEFLCPRPGTCDHGSRE KQGH SRGPQGFPGRWP GRAVA ETRG AIDHRL
10555	40923	A	10616	169	270	GICPFLQLSFYHLLD*DTRYLQI LRLQLKPHSFH

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10556	40924	A	10617	1	1551	MRKDSCASSMHQQVSRSKKRA GQKTPPEDQEGGQRALRSSHIR LGQFLIEDCKTPSPSSLGADAI AKQRKTSVSAAASVSATIPIRR VQGPTVVGSWARGVSAAASGP RGTGPKGKARSEKGC SL SHGPQ TNKPLVVQKGQKMEQANHPV GLVISVVYKDILKKIVQRETSH LIHVRYAEAITGRRTAPEDKGS LGRDMLAKAGAIIMNMGNKL PIWCHLLEEGIYLEVWALEGQF GRAKNACPVQIRLKDPTTFPYQ RQYPLRPEAHKGLQDIVKHVK AQGLVKKCSSPCNTPI LGVQKP NGQWSLVQDLRLISEAVIPLYP VVPNPYTLLSQIPEEA EWFPVL DLKDAFFCIPLHYDSHDSQFLF AFEDPTDHTSQLIWTVLPQGFR DSPHLFGQALAQDLGHFSSPGT LVLQYVDDLLLATSS EASCQQA TLDLLNFLANQGYKASRSKAQ LCLQQVKYLG LILARGTRTLGK ERIQPILAYPHPKTLKQLWGFL QIT/GFCQLWIPR*SKI
10557	40925	A	10618	1	1022	MKPSVWALIQLNLSPYEKGILG LTKRHQGRLCDGRQGIQPLPP SQAHTGIPLLHPYSIQVDCAIDR GKLCFCCCIGECNYS DQQGPGT VAGSWARGISAAVSVSATILISR VQGPLHVLGQEVFLLLRQTNL AGSERTENGAGQSPGGACYQC GLQGHFTKDCPMRNLPPRPCP LYQGNHWKDGEPIEHDCQQIIV QTSAAEDLLEVPLANPDNLNLY TDGSSFVENGEVAKAVIAQFPT TVGVSCLDGRLRVLEVLARAIR /LGEGNKGYSIRKRGSIQVPVCR *HDCISRKPHHLSPKSP*ADKQL QQSLRIQNQCAKITSILIHQ*QT
10558	40926	A	10619	1	2091	
10559	40927	B	10620	1	2269	
10560	40928	A	10621	1	1776	

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10561	40929	A	10622	112	1465	LLKGARCLIQRP SFA/LQQETHR AHTLLEWEPQAETAFTTLKQA LLQAAALTLPT RQNFSLYVTDR AEIALGVLIQTCTGTPQPVA YLT IEKGKERGEQ QHKQLAEAAER KERKRQEVRE REKEKETERQSK KEREETKMESE RKRETEKEVS TLAALEEPFSP PQPSLGLAEAGA GSLFSWGGVEGEVRGGGRAAH SAHRLVQVPGGQVRVQVFENP LLKAIKSDLPRSSL WSGRKT SV SAAALKEIRKEISKGTQIPLGYR LCPLQAVGGGEFGPTKIHPFS LSDLKQIKADLGKFSDDPDRYI DVLQGLGKTFDLTW RDMVLLL DQTLAFNEKNAALAAASEFGGI WYLSQVND RMTAEERDQFPTG QQAIPSM DPHWDLSDHGDWS HKHLLTCVLEGLRGIRKKPMN YSMMSTIIQGKEENPSAFLQQL WKSRLK YTPSSKSL
10562	40930	C	10623	52	690	
10563	40931	C	10624	199	285	
10564	40932	A	10625	59	411	SWPSDKQTLVVQRGQKMEQA NHPDPTDHMSQLMWT/VLPQG FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDL LATSSEASCQ QATLALLN FLANQGYK/LSRSK AQLCLQQVKYLCL
10565	40933	A	10626	280	571	DIYVPIRII*KLPQAYAD/PAVPP CTSGRIWL*IHAGAWSSFVLVS Y*LLPQFQILL LVYSEIQILPGLV LGECMCQGICPFLDLFVYLRR GVCSIL
10566	40934	A	10627	60	148	WGRGEPLCLAQGL*THQSAPC QNRPLGSL
10567	40935	B	10628	1	397	
10568	40936	A	10629	55	219	LGNKHLLGSIDPRGSWVTGEYI FLRPPIAA*GRQ*DFLPPELWW TSLNNSWAFS
10569	40937	A	10630	3	494	
10570	40938	A	10631	2	689	
10571	40939	A	10632	157	277	DV*SNNSMTSLQVRCRTSMYLS GSSENFPRSTWICDAVAETPLA QEPATVPGP
10572	40940	A	10633	230	543	PSDRQTLVVQRGQKIEQANHL VGLVTSVVWKDTLKKIVHGMA FSMLISC/PRQLSSRSITIQGILGR AVTRYFSHLLSCNWETLLQIDQ GHQATDGLTNGTPNELN
10573	40941	B	10634	1	669	

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10574	40942	A	10635	119	409	GDICHLGLTPVGSHSLSCSR* QVA*VGAVTAATIGTGILLQQL AFLVCNWLLSGSSENFPRSALI CFKSEREKGTCIQVGPNSPPPTA CKGHN
10575	40943	A	10636	3	482	LSSYSGGDLEKLYV*LRDCKYT NQHSVSSSRFVNIPISLTCLTQG L*MHPMDTLYLATLGGDLENL CVHTLYLANLVGMWRTFVSSS GIVNAPISTLSKQTT*LSVKWTN QQDVGGARQENKSRLPEPAVT TPLGSPPTPWKLCSFALCNKSC YCPK KKK
10576	40944	A	10637	1	2331	
10577	40945	A	10638	879	1353	SNNRTEGARGKRQLMSSP/STE PRVRLTIEGQETDFLLDTGAAFS VLISCLGRLSSRSVTIR*ILGQP VTRYFS/QPLSCNWETLLFSHAFL IMPESSTPLLGRDILAKAGAIYI NMGNKLPICCPALLVEGINPEV WALEGQFGRKNARPLQIRLK
10578	40946	A	10639	345	1996	
10579	40947	B	10640	97	1110	
10580	40948	A	10641	728	5171	
10581	40949	C	10642	1	2049	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10582	40950	A	10643	1	2019	MNAHPEFRMAMKDGELVIWD SVHPCYTVFHEQTETFSSLWSE YHDDFRQFLHIYSQDVACYGE NLAYFPKGFIE NMFFVSANPWV SFTSFDLNVANMDNFFAPVFTM GKY YTQGD KVL MPLAIQVHHA VCDGFHVGRMLNELQQYCDE WQGG AQYPLRPEAHKGIQDIV KYLKAQGLGRKCSSPCNTPI LG VQKLNGQWRLVQDLRLIN/EGF F*SSKLQAMQAMFAENSMSSV YSPTQEA EYWLPHGILQPADCF FEAASTSRSMWPRE/DWLSTT/S LTTWNMDFADFGTTIKQDFRLL GQTSVDRLLQLSQGQAVKGNQ LLPVSLVKRKTTLAPNTQTASP RALADSLMQLARQVSRLESGH LDHGSHSYRRSDNSLDPRSHSC CRSDIGLGPRSHLYCRSDYQRE TTIP SMPVKGNQAPCMKS NNA LIVILGTVTLDAVGIGLVMPVLP GLLRDIVHSDSIASHYG VLLAL YALMQFLCAPVLGALSDFRGR RPVLLASLLGATIDYEIMATTPS WEDEEPIEHDSQQIIVQTYATR DDLLEVPLANPDNLN YADGSSF VENGIRRAGYAIVSDVTVLENS LAAVTLQNRQGLDLLTAEKCG LCTFSGKECCFYTNQSGISSPLE DTTTAGPFLHPIQQEVARAIIGQ FPTAFGVSCLEGR LRGEASWTS
10583	40951	A	10644	803	1171	
10584	40952	A	10645	1	2148	
10585	40953	A	10646	1094	3886	SNDRTEDDCGKH PFMSSPP/TEP WVCLII EGQEIDFLLD TGTTFSV LIPCLGR LSSRSVTIQGILGQPV T RYFSHLLSCNWETLLF SHAFLV MPESPTLLGRDILAKAGAIISM KTGNKLPICCP LLEGINPEVWA LEGQFGR AKNAHPLQIRLKDPI SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPI LG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLLSQVP EEA EW FTVLDLKD
10586	40954	A	10647	762	1298	

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10587	40955	A	10648	893	2165	GPRGTGPKGKARSEKGRSLSHG PQTNKPLVVQKGQKMEQANHP VGLVISVVYKDILKKIVQRETS HPLIHVRYAEAITGRRTAPEDK GSLGRDMLAKAGAIYMNMGN KLPIWCHLLEEGIYLEVWALEG QFGRKNACPVQIRLKDPTTFP YQRQYPLRPEAHKGLQDIVKH VKAQGLVKKCSSPCNTPILGVQ KPNGQWSLVQDLRLISEAVIPL YPVVPNPYTLLSQIPEEA EWFP VLDLKD AFFCIPLHYDSHDSQF LFAFEDPTDHTSQLIWTVLPQG FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLATSSEASCQ QATLDLLNFLANQGYKASRSK AQLCLQQVKYLGLILARGRTL GKERIQPILAYPHPKTLKQLWG FLEITGFC*LWIPGYSKIARPLYT
10588	40956	A	10649	2	403	
10589	40957	B	10650	51	1038	
10590	40958	A	10651	581	1128	SPCRAQRHSCMWGLWQQSPCS PGSWQDSSPAQSGPPR*PFSVP SSPWCLPSTWPLSPSPLPASWR RKTSAPSLLSLATAGPP*AGVC E/AKTPKKKYSDDDDEEESEEN SRDSEDFSDDFSDDFVETRRR RSRRNQKRQINYKEDSESDGSQ KSLRRGKEIRRVHKRRLSSSESE GYFFIKS
10591	40959	B	10652	1	4296	
10592	40960	A	10653	2	447	KEKKRNKKKKTIGSPKRIQSPL NNKLLNSPAKTLPG/AC/GSPQK LIDGFLKHEGPPAEKPLEELSAS TSGVPGLSSLQSDPAGCVRPPV VKYCTDLIEEKDLEKLDLVIKY MKRLMQQSVESVWNMAFDLIL DNVQVVLQQTYGSTLKVIT
10593	40961	C	10654	286	336	
10594	40962	A	10655	421	638	

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10595	40963	A	10657	1	888	MMNEKNLEKGLGVDSVDKDA MNAAIQQAIIKAQPSMSPKKAPP APAKEARNVVA VGTGGRGTHD RDPSEKPPRLQWFEQQA KKL KQQEEDSEEEEEEDLDGDVLEIG KSKIKVLAESVSDWEDIDSDEE LECEDTEAMDDVVEQDAEEEE AEEGPPLGAIPITDCLFCSHHSSS LMKNVAHMTKDHSFFIPDIEYL SDIKGLIKYLGTHSSSSNVCKGL WDLEKRPSIDLK/CRT*YSTKRH /CTR TLSASSHFILCQWFSVLS/P VHASTDQEIQEMHDDQSNPQN AVVREHCVGWGWGV
10596	40964	A	10658	1	1545	MATYTCITCRVAFRDADMQRA HYKTDWHRYNLRKVASMAP VTAEGFQERVRA\HGPSRRRRA RARP/LYCTVCSKKFASFNAYE NHLKSRRHVELEKKA VQAVNR KVEMMNEKNLEKGLGVDSVD KDAMNAAIQQAIIKAQPSMSPK KAPPAPAKEARNVVA VGTGGR GTHDRDPSEKPPRLQWFEQQA KKLAKQQEEDSEEEEEEDLDGD VLEIGKSKIKVLAESVSDWEDI DSDEELECEDTEAMDDVVEQD AEEEEAEEGPPLGAIPITDCLFC SHHSSSLMKNVAHMTKDHSFFI PDIEYLSDIKGLIKYLGKVGVG KICLWCNEKGKSFYSTEAVQA HMNDKSHCKLFTDGDAALEFA DFYDFSWRLAVGGHDWVERLT ASHYFYGYYPGARVGHRSMLR YYKQRFGLSRAVAVAKNRKAV GRVLQQYRALGWTGSTGAAL MRERDMQYVQRMKSKWMLK TGMKNNATKQMHFRVQGSQK EIQIFHSSEIDGIATAVEDDFASP TPTKDAKN
10597	40965	A	10659	3	943	

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10598	40966	A	10660	1	2427	MATYTCITCRVAFRDADMQRA HYKTDWHRYNLRKVASMAP VTAEGFQERVRA\HGPSRRRA RARP/LYCTVCSKKFASFNAYE NHLKSRRHVELEKKAVQAVNR KVEMMNEKNLEKGLGVDSVD KDAMNAAIQQAIIKAQPSMSPK KAPPAPAKEARNVVAVGTGGR GTHDRDPSEKPPRLQWFEQQA KKLAKQQEEDSEEEEDLDGD DWEDIDSDEELECEDTEAMDD VVEQDAEEEEAEAGPPLGAIPIT DCLFCSHHSSSLMKNVAHMTK DHSFFIPDIEYLSDIKGLIKYLGE KVGVGKICLWCNEKGKSFYST EAVQAHMNDKSHCKLFTDGD AALEFADFYDFSWRLAVGGHD WVEVEGRIRGCGSREDNECLL VCNFSVIGVAIQITRKGRTPIRA EELPSEKNLEYDDETMELILPSG ARVGHRSLMRYKQRFGLSRA VAVAKNRKAVGRVLQQYRAL GWTGSTGAALMRERDMQYVQ RMKSKWMLKTGMKNNAATKQ MHFRVQMDCRGIAVLVFKAPS FYLIMAPKHKSGDAGDSNMPK GSRKVLPLSEKVKVLKEKKLY AEVAKIHGVKLQTFGVSVTAH KGSVDPKSEQQQDLLQRVKEQ SFHSVEADPAAEGAGSGLSQLR KGLPQCSSLNGSSSATKVGAQ AEEAPRASEGCEGCQHAVTSQ
10599	40967	A	10661	3	658	GTKGWAFPIITDCLFCSHHSSSL MKNVAHMTKDHSFFIPDIEYLS DIKGLIKYLGEKVGVGKICLWC NEKGKSFYSTAVQAHMNDKS HCKLL\QGDAALEFADFYDFR SSYPDHKEGEDPNKAEELPSEK NLEYDDETMELILPSGARVGH RSLMRYKQAIWLKKNLWQLP KIRKAVGRVLQQYRSPGIGLGS TGAALMRERDMQYVQRMKSK MGC
10600	40968	A	10662	1	221	MNPLANSTLTDVHPHFIFKQMA ELDRDMDEAGNHHSQQTNTRT ENQTPHVLTHKWELNNENTRT QGREHHTSEEFIAIQPEYYQKE KSNSDINLEGTSYWTENHCSGI YKVINCLESEIHSEEN*CQN*IFL SDNIQVELR*IPLMCDVPCVSV CSHCSTPTYE

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10601	40969	A	10663	1	1815	MHEAGNHHCQQSNTSRKENQTP DVLTHK WEGFDQLRLEGLLCD VTLMPGDTDDAFVHRVMMA SASDYFKAMFTGGMKEQDLM CIKLHGVSKVGLRKIIDFIYTAK LSLNMDNLQDTLEAASFLQILP VLDFCKVFLISGVTLDNCVEVG RIANTYNLTEVDKYVNSFVLKN FPALLSTGEFLKLPPERLAFVLS SNSLKHCTELELFKATCRWLRL EPRMDFAAKLMKNIRFPLMTP QELINYVQTVDFMRTDNTCVN LLEASNYQMMPYMQPVMQS DRTAIRSDTTHLVTLGGVLRQQ LVVSKELRMYDEKAHEWKS LA PMDAPRYQHGI AVIGNFLYVV GGQSNYDTKGKTA VDTVFRFD PRYNKWMQVASLNEKRTFFHL SALKGYLYAVGGRNAAGELPT VECYNPRTNEWTYVAKMSEPH YGHAGTVYGGVMISSGITHD TFQKELMCFDPDTDKWIQKAP MTTVRGLHCMCTVGERLYVIG GNHFRGTSDYDDVLSCEYYSPI LDQWTPIAAMLRRQSDVGVA V FENKIYVVGYSWNNRCMVEI VQKYDPDKDEWHKVF DLPESL GGIRACTLTVFPPEETTPSPSRES
10602	40970	A	10664	1	1226	MNEIEFRLERTPVDESDD EIQH DEIPTGKCIAPFDKRLKHFRVT EGSPVTFTCKIVGIPVKVYWF KDQKQISKRNEHCKMRREGDG TCSLHIESTTSDDDGN YTIMAA NPQGRISCSGHL MVQSLPIRSRL TSAGQSHRGRSRVQERDK EPLQ ERFFRPHFLQAPGDMVAHEGR LCRLDCKVSLPPP DMTWLLN GQPVLPDASHKMLVRETGVHS LLIDPLTQRDAGTYKCIATNKT GQNSFSLELSVVAKEVKKAPVI LEKLQNCGVPEGHPVRLECRVI GMPPP VFYWKKDNETIPCTRER ISMHQDTTGYACLLIQPAKKSD AGWYTLSAKNEAGIVSCTARL DIYAQWHHQIPPPMSVRPSGSR YGSLSKGLDIFSAFSSMESTM VYSCSSRSVVEDEL
10603	40971	C	10665	166	229	
10604	40972	B	10666	251	371	

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10605	40973	A	10667	79	1391	PWEGSAPATSPLGEDSAWGSADGSESWSCRELLQPGDVLGESCGLTPPALPAHCIQEGCLPPLTQELRCCQPPRMGRWALDVAFLWKAELTLGLELLYY\CFFIGINFYNKWLTKSF/HIFPLFMTMLHLAVIFLFSALSRLVQCSSHRRARVLSWADYLRRVAPTAALREVASLFRKPSEAEMLCPPARQRGEARELSQNPPIRAGEGRLQGHRQVATVICAPAPFSVMGLSPQLQCI VGNFASRYTMTKSSAVLFILIFS LIFKLEELRAALVLVLLIAGGLFMFTYKSTQFNVEGFA\WCWGRSSVAFAGPSPRCSCRRLNSASRIPSTPCSTCSHSCS/WGLFPLFAVFEG\TGLLLRVLGSLFLGGILAFGLGFSEFLL/VSSRTSSLTSLIAGIFKEVCTLLAAHLLGDQISLLNWLGFASASREYPTSLPS
10606	40974	A	10668	1	1129	MGRWALDVAFLWKA VLTGLVLLYYCFSIGITFYNKWLTKSFHFPLFMTMLHLAVIFLFSALSRLVQCSSHRRARVLSWADYLRRVAPTALATALDVGLSNWSFLYVTVSLYTMKSSAVLFILIFS LIFKLEELRAALVLVLLIAGGLFMFTYKSTQFNVEGFA\WCWGRSSVAFAGPSPRCSCRRLNSASRIPSTPCSTCSHSCSWGLFPLFAVFEGHLSTSEKIFRFQ\DTGLLRVLG\SLFLGGILAFGLGFSEFLLVSSRTSSLTSLIAGIFKEVCTLLAAHLLGDQISLLNWLGFASASREYPTSLPSKPCIPEVTQSPFQKPLVSVLLPVTLSDSDAGSVPGGSAAVTPLGRCGGHLQSGWVGP
10607	40975	A	10669	566	1026	PVMPKLIYVIRTGKQLKISLGHVDFQTVPSFLQQLNV/WQTIKASEHPDRNDCVAVLRQKRSLGSVENTSGKRKCWGGQSGFTTSELEETEEDSDLSDYGDDVDGRKDALAEPCFMLIGEIFELRGKPQYQLEIWQVPTGTPDHLEEEANEK

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10608	40976	A	10670	1717	2340	GIDVQGKKNSFSLSSFLERLPRD FFSHQEEETEEDSDLSYGGDDV DGRKDALAEPCFMLIGEIFELR GMFKWVRRTLIALVQVTFGRIT NKQIRDTVSWIFSEQMLVYYINI FRDAFWPNGKLAPPTTIRSKEQ SQETKQRAQQKLENIPDMLQS LVGQQNARHGII/NKYSNALQE TRANKHLLYALMELLIELCPE LRVHLDQL
10609	40977	A	10671	181	399	NRVIVPISQIMKRKRKVSIVLN VTGY*/RGM/RKPGLLNLAGSFL LSTSPTSSENSNRCRGLWQIDPW EEGETYV
10610	40978	A	10672	66	535	CWWQDPLQRTQKSVTATSTK ID\ISNVKIPKHPADAYFKKQQL WKPRNRKLAGKLSTPAARDAP RARPPHEAPPPPPPELRYRVPP RPAPSSWRHPSGKGRRGPPGIG GRIVGERQLRTEYGNDRPGREG DPAPGCCGGARTLSLYGEIKLR VKF
10611	40979	A	10673	67	585	SAAKSEMAKVEKPDTEKKK PEAKKVDAGGKVKKGNLKAK KPKKGKPHCSRNPVLRGIGRY SRSAMYSRKAMYK\RKYSAAK SKVEKKKKEKVLATVTKPVGG DKVGGTRGVKLRKIMPRI\YPT EDVPRKLLSHGKKPFSQHVRKL RASITPGTILILTGRHRGKRVVF
10612	40980	A	10674	2	282	CIALYCHLLNICKSVKAEMQNL GREFIVPGMDSATSLIWATK/DL MNAVIEAPEKKPLLKREKQDES QSEIKWASQKKHLNPVQALSEF KAMDSI
10613	40981	A	10675	2	2798	
10614	40982	A	10676	14	2858	PDWRETKQRPSASGLWNLALA QLAAEMTAVHAGNINFKWDPK SLEIRTLAVERLLEPLVTQVTTL VNTNSKGPSNKKRGRSKKAHV LAASVEQATENFLEKGDKIAKE SQFL*E*LLAAVEYVRKQGD MKTAAGEFADDPCCSSVEQGNM VQAA*TLASVTCLLILA\DMG NVYTLIQLKVVEDDILKLRNA GNEQDLGI*YKALKPEVNKVNI MAVKRQQELKDVGHRDQMAA ARGILQKNVLIFYTASRA
10615	40983	A	10677	1	4545	

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10616	40984	A	10678	1	1921	MAGLGMGEEGIPGGERWEHKR RAHIVSNHRITRTGTHPYTHSPY PHKDNVHTARREHKTQDLGTI RSVGHSSSEHTQHTTPDTPVPLV VIVCRVCYRPPHGETRAEYTRH RGQNRRTKFWVGKEEKNLAQ QERTEEQLANIARGGYVLKDC AGQPELIFIATGSEVELAVAAYE KLTAEGVKARVVSMPSTDAFD KQDAAYRESVLPKAVTARVAV EAGIADYWKYVGLNGAIVGM TTFGESAPAEELLFEFGFTVDNP LASRAVRLRLPFNNDQVEAAV GWKLAVERNHPTALILSRQN LAQVERTPDQVKEIARGGYVL KDSGGKPDIIIIATGSEMEITLQ AAEKLAGEGRNVRVVSPLSTDI FDAQDEEYRESVLPNSVAARV AVEAGIADYWKYVGLKGAIV GMTGYGESAPADKLPFFGFTA ENIVAKAHKVLGVKAGSHIPRK KYDVPGKKSFSPVKYSTIGSPSP ERPVSITTIPNSFVIITANRVLHC NADTPEEMHHWITLLQRSKGD TRVEGQEFIVVEKLIRGLAMED SRNMFAL/S*IQRPRRQSH*KSN RRS*CLSQV*KRASW*AFTNI* WPDRHGLRKYSF/WSPGNIHHL RHCRLM*VVRLLLRLLNAVYE
10617	40985	A	10679	1	2940	
10618	40986	A	10680	2	404	
10619	40987	A	10681	2	546	WCPHRWRPHTLTPTAAPAVTK SPEATHLYGQVSWNSQNLHLE GQLQSASLQGSFMLK**GDPLD F/VMSPPRPLFERLKARISQSTK TFTPCERLEKRRTSFLEGLRRS FRTGSVVRQKVEEQMLDMWI KEEVSSARASHIDKWRKFQGMN QEAMAKYMALIKEWPGYGST LFDVEGTD
10620	40988	A	10682	1	555	
10621	40989	A	10683	1	627	

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10622	40990	A	10684	1	7232	MPEPPTHSMGSCAAGASLTSTA PCSTAPSPIDHLRAKERCETAQ DWQAAPPAALVRDPLAALVRT WRTFMSSSRIVNTPIGTLCLAQ GFQWFSVLSQVHASTDQEIQE MHDEQANPQNAVGTLDVGLID SVCASDSPDRPNSFVIITANRVL HCNADTPEEMHHWITLLQRSK GDTRVEGQEFIVRGWLHKEVK NSPKMSSLKLLKKRWFVLTHIPG LLQEFREDALNWGPDEKIFKET ELVNDMDKINGRIERAEE
10623	40991	A	10685	1	2146	IDSVCASDSPDRPNSFVIITANR VLHCNADTPEEMHHWITLLQR SKGDTRVEGQEFIVRGWLHKE VKNSPKMSSLKLLKKRWFVLTH NSLDYYKSSEKNALKLGTLLV NSLCSVVPDEKIFKETGYWNV TVYGRKH CYRLYTKLLNEATR WSSAIQNVTDTKAPIDTPTQQLI QDIKENCLNSDVVEQIYKRNPIL RYTHHPLHSPLPLPYGDVNLN LLKDKGYTTLQDEAIKIFNSLQ QLESMSDPIPIIQGILQTGHDLRP LRDELYCQLIKQTNKVPHPGSV GNLYSWQILTCLSTFLPSRGIL KYLKFHLKRIREQFPGTEMEKY ALFTYESLKKTKREFVLSRDEI EALIHQRQDMTSTVYCHGGGSC KITINSHTTAGEVVEKLIRGLA MEDSRNMFALFEYNHVDKAI ESRTVVADVLAKFEKLAATSEV GDLPWKFYFKLYCFLDTDNVP KDSVEFAFMFEQAHEAVIHH HPAPEENLQVLAHAHATSSIMQG DYTLHA\AIPP\LEEVYSLQRLK ARISQSTKTFTPCERLEKRRTSF LEGTLRRSFRTGSVVRQKVEEE QMLDMWIKKEEVSSARASHDK WRKFQGMNQEQAMAKYMALI KEWPGYGSTLFDVEVRTGCHV LGWAGCWHLRTWITAKFMWR EDKMEHFALSTSFFRAPKIVPLT PPFSSQFLFSCVNVNASVILGMN

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10624	40992	A	10686	28	561	MDIVQDATFVYATLQTAHYHR DAGLPVYLYEFEHHARGIIVKP RTDGADHGDEMYFLFGGPFAT GAKVPPDTPTGCPVSHLWMQT HPSIGWPQGAHQFLICYALPNE SLLLRLKQKQKE*GGRNPNDG NLPCWPRYNKDEKYLQLDFTT RVGMKLKEKKMAFWMSLYQS QRPEKQRQF
10625	40993	A	10687	148	444	
10626	40994	A	10688	1	1531	PLPGARRCLHEFWGQLASMYV STRERYKWLRFNEDCLYLN VYAPARAPGDPQLPVMVWFP GGAFIVGAASSYEGSDLAARE KEGLVFLQHRLGIFSFLSTDD SHARGNWGLLDQMAALRWVQ ENIAAFRGRPREILTLFGQS AGAMSISGLMMSPLASGLFH RAISQSGTALFRLFITRNPL KVAKKVAHLAGCNHNSTQIL VNCLRALIRAKVMRVS NKMRFQLNFRDPEEIIW SMSPPVVDGVPVDDPLVLLT QGKVSSVPYLLGVNNLEFN WLLPYIMKFPLNRQAMRKE TITKMLWSTRLLAKNSWGA EHGSKSLVGPPLAQLAPR PQNITKEQVPLVVEEYLDN VNEHDWKMLNRNMMDIVQ DATFVYATLQTAHYH RDAGLPVYLYEFEHHARGI IVKPRTDGADHGDEMYFL FGGPFATGLSMGKEKALS LQMMKYWANFARTGNPN DGNLPCWPRYNKDEKYL QLDFTTRVGMKLKEKK MAFWMSLYQSQRPEKQRQF

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10627	40995	A	10689	138	1898	ICKYIMNDQWARQNCLHSPTY GPSENVLSSAESKPEIQLSPSCPL IFSSQQALSQHVLSHLSQLFSS LWAGNPLHLGKHYPEDQKQQ QDPFCFSGKAEWIEGEDSRLL FGRVSKNGTSKALSSPPEEQP AQSKEDNTVVDIGSSPERRADL EETDKVLHGLEVSGFGEIKYEE FGPGFIKESNLLSLQKTQTGETP YMYTEWGDSEFGSMSVLKNPR THSGGKPYVCRECGRGFTWKS NLITHQRTHSGEKPYVCKDCGR GFTWKSNI L FTHQRTHSGLKPY VCKECGQS FSLKSNLITHQRAH TGEKPYVCRECGRGFRQHSHL VRHKRTHSGEKPYICRECEQGF SQKSHLIRHLRTHTGEKPYVCT ECGRHFSWKSNI L KTHQRTHS VKPYVCLECGQC FSLKSNLNK HQRSH TGEKPFVCTECGRGFT RKSTLITHQRTHSGEKPFVCAE CGRGFNDKSTLISHQRTHSGEK PFMCRECGRRFRQKPNLFRHRR AHSGAFVCRECGQGFC AKLTLI KHQRAHAGGKPHVCRECGQGF SRQSHLIRHQRTHSGEKPYICRK CGRGFSRKSNI L RHQRTHSG
10628	40996	C	10690	160	294	
10629	40997	A	10691	3	82	SWACAIHPTGYLIEQAGG*WVT ARRD

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10630	40998	A	10692	1	1399	MLRRYRPDITSCHGSTAESKGG VVLDVSGRARPLRRTNSPSPT SLTSSKMSGLDGGNKLPLAQTG GLAAPDHASGDPDRDQCQGLR EETEATQVMANTGGGSLETVA EGGASQDPVDCGPALRVPVAG SRGGAATKAGQEDAPPSTKGL EAASAAEAADSSQKNGCQLGE PRGPAGQKALEACGAGGLGSQ MIPGKKAKEVTTKKRAISAAVE KEGEAGAAMEEKVVQKEKK VAGGVKEETRPRAPKINNCMD SLEAIDQELSNVNAQADRAFLQ LER\KFGRMRRLHMQRISFIIQNI PGFWVTAFRNHPQLSPMISGQD EDMLRYMINLEVEELKHPRAG CKFKFIFQGNPYFRNEGLVKEY ERRSSGRVVPFSTPIRWHRGQ\ DPQAHIHNRNREGNTIPSFFNWFS DHSLLEFDRIAEIIGELWPNPL QYYLMGEGPRRGIRGPPRPQVE SARSFRFQSG
10631	40999	A	10693	3	441	
10632	41000	A	10694	190	2716	
10633	41001	A	10695	1	793	MARQKKMGQSVLRAVFFLVLG LLGHSHCGFPNTISIGKRKRASR RSRLSLTRDHCPGKAFAVFA ERSTGGEQEAGMLQGGEESRLF GSLWTLPWACSSWKLSQGD ADCLAAPGRITRARGAQS VVSG CRETGW\GLFMRNTVQEHS AFR FAVQLYNTNQNTTEKPFHLNY HETSPIPLKSPPVSFCCALVVHS TLHRPSLCVSSLAHRSHIPSPH CHCKNCCCTPLQPTNVLV DYA LFARSREKANVTCLKLPLTEVIPF
10634	41002	A	10696	2	2744	
10635	41003	A	10697	2	2740	
10636	41004	B	10698	47	7237	

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10637	41005	A	10699	426	2118	GFGHTVHAAEGGDFGGSWQG DSVLLCSTVDPGSWAASRGKG SPCRGPLCGCCPGRSS\QPSKVE VAVSCSCGALLGCMPPVVLA LEGCPRGVAAKKGKSPQAQTV RRSPSADQSLEDSPSKVPKSW FGDRSRARQAFRIKGAASRQNS EEASLPGEDIVDDKSCPCFVTE DLTPGLKVSIRAVCMRFLVSK RKFKESLRPYDVMVIEQYSAG HLDMLSRIKSLQSRQEPRLPVQ QGTRTGIDMIVGPPPPSTPRHKK YPTKGPTAPPRESPQYSPRVDQI VGRGPAITDKDRTKGPAEAELP EDPSMMGRLGKVEKQVLSMEK KLDFLVNIYMQRMGIPPTETEA YFGAKEPEPAPPYHSPEDSREH VDRHGCIVKIVRSSSTGQKNFS APPAAPPVQCPPSTSWQPQSH RQGHGTSPVGDHGLVRIPPP AHERSLSAYGGGNRASMEFLR QEDTPGCRPPEGTLRSDTSISIP SVDHEELERSFSGFSISQSKENL DALNSCYAAVAPCAKVRPYIA EGESDTSIDLCTPCGPPRSAT GEGPFGDVGWAGPRK
10638	41006	A	10700	1	774	
10639	41007	A	10701	124	815	HPGTAMDALNSMQNFLRGRPK TFKSLENAIEWSVKSGQIRNLES ARVSMVGQVKQCEGITSPEGSK SIVEGIIEEEEDEEGSESISKRK KEDDMETKKDHPYTWRIELAK TEKYWDGWFRGLSNLFLSCPIP KLLLLAGVDRDLKDLTIGQMQ GKFQMQVLPQCGHAVHEDAP DKVAEAVATFLIRHFAEPIGG FQCVFPGLLVTCPPLLQHRAL LVNTFAPEAHC
10640	41008	A	10702	69	370	
10641	41009	A	10703	1	224	MCNTPAYCDLGKAAKDVFNK GYGFGMVKIDLTKKSCSGVEFS TSGHAYTDTGKASGNLETKYK VCNYGLTFTQK*NTPAYCDLG KAAKDVFNGYGFVMVKIDLK TKSCSGVEFSTSGHAYTDTGKA SGNLETKYKVCNYGLTFTQK
10642	41010	A	10704	2	171	

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10643	41011	A	10705	1	740	MCNTPTYCDLGKAAEDVFNKG YGFGMGKIDLKTSCSAVEFST SGHAYTDTGKASGNLEPECKV CNYGLTFTQKRNTDNTLGTEIS LENKLAKGLKLSLDTILVPNTG KKSSELKASYKWDCFSVGSNV DLDFSGPTIYGWAVLVFEGWL AGYQMSFDTAKSKLSQNNFAL GYEADFQLHHTVTDGTEFGG SIYQKVNGIEMSINLA WTA/GSN NTHFGIATKYKLD CRTSLSAKA VVLGTRV GSC
10644	41012	B	10706	1	318	
10645	41013	A	10707	2	100	
10646	41014	A	10708	116	1746	SSVTGRTEKARIWEVTDRTV/R RPWIGEAVAAAAADGVTFSP VTPHTFRHSYAMHMLYAGIPL KVLQSLMGHKSISSTEYTKVF ALDVAARHRNRFTQFRLSETKE ITNPYAMRLYESLCQYRKP DGS CIVSLKIDWIIERYQLPQSYQLY YFELAI PVGYFYPGSFSTASRIL LLHPRGLRAITIAVFGKQNTYIR LEPFKINVLEQITKHIEKLQCGG VVKQLSRRGNNQHISSTYDINR ADTQVRRAVNNYDIIVMSNSFN GQSEHQVWIARLTWVIGTINVV CAADV LIVPTPAELFDYTSALQ FFDMLRDLLKNVDLKGFE PDV RILLTKYSNSNGSQSPWMEEQI RDAWGSMVLKNVVRETDEVG KARLTWGIGTINVVCAADV LIV PTPAELFDYTSALQFFDMLRD LKNVDLKGFE PDVRILLTKYSN SNGSQSPWMEEQIRDAWGSMV LKNVVRETDEVGKEPPSTNTFR HSYAMHMLYAGIPLKVLQSLM GHKSISSTEYTKVFALDVAAR HRVQFAMPESDAVAMLKQLS
10647	41015	A	10709	284	969	RVSRGRK WFFIALKRMPAMKK AMNLFGLSNVRTVHPEGFTV YISTHISFPSLSGYRTGLRSFGLV KQKKSPIRMPCVYTNPCVSIHP LWLRLRSPSARWLRCGSPSLG WTRTEPAPSPRGRTEKARIW EVTDR TVRTWIGEA V/AAHAA DGVTFSPVTPHTFRHSYAMH MLYAGIPLKVLQSLMGHKSIS TEYTKVFALDVAARHRVQFA MPESDAVAMLKQLS

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10648	41016	A	10710	2817	3297	AGCVRHRLSENRLDHRALPAA SKLPAYA*LPPPLPAGRL*RIPH RQFL*HQI/RL/PTERRCLLTRT EKARIWEVTDRTVRTWIGEAV ARLAADGVTFSPVPTPHTFRHS YAMHMLYAGIPLKVLQSLMGH KSISSTEVYTKVFALDVAARHR VQFAMPES
10649	41017	B	10711	1	963	
10650	41018	A	10712	1	1296	
10651	41019	A	10713	1	1167	
10652	41020	A	10714	349	3195	
10653	41021	A	10715	163	864	
10654	41022	A	10716	576	754	
10655	41023	A	10717	1	1449	
10656	41024	A	10718	1422	1600	
10657	41025	A	10719	489	726	ISCCSFFSPRPPHTFRHSYAMH MLYAGIPLKVLQSLMGHKSIS TEVYTKVFALDVAARHRVQFA MPESDAVAMLKQLS
10658	41026	A	10720	1	1596	
10659	41027	A	10721	1	1572	
10660	41028	A	10722	2	100	
10661	41029	A	10723	561	804	TLRQTKPDNSADPPHTFRHSY AMHMLYAGIPLKVLQSLMGHK SISSTEYVYTKVFALDVAARHRV QFAMPESDAVAMLKQLS
10662	41030	A	10724	1	867	
10663	41031	B	10725	1	825	
10664	41032	A	10726	1	942	
10665	41033	A	10727	2	100	
10666	41034	A	10728	39	359	RILGKGAGQTRAESLVWGRGV PARCC*PGGPFLVPGPPP*VR/H LSYARPM/L*PGIPLKVLQSLMG HKSISSEVYRKVFALNVAARH RVQFAMPEFDAVAMLKQLS
10667	41035	B	10729	41	724	
10668	41036	A	10730	1	1023	
10669	41037	A	10731	1	1314	
10670	41038	A	10732	1	1128	
10671	41039	A	10733	892	1611	
10672	41040	B	10734	78	1099	
10673	41041	A	10735	1	936	
10674	41042	A	10736	766	1056	
10675	41043	A	10737	1	1422	
10676	41044	A	10738	1214	1721	

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10677	41045	A	10739	2592	3233	RWGRWRTGGSSRSEPTMELRA PAWPRGRPGQGGARPAGSELR GNATAPSPACLCRNILCRMES PNTDGKRPETGSNKRKGAGDK WWKIKTGNIIRDKLMERRNRRT GRTEKARIWEVTDRTVRTWIGE AVAAAAADGVTFSVPVTPHTF RHSYAMHMLYAGIPLKVLQSL MGHKVISSTDFYTKVFALDVA ARHRVQFAMPESDAVAMLKQL
10678	41046	A	10740	6323	7130	
10679	41047	A	10741	319	522	RNTRYWVINSISVIPSSALISKR SPRLMAKKTAAHFLGISRTSVAE FTFTRSGISRDCVKGAGAADR RPNAPPRAEFQSGWFLIMECFA R*VGDPQL/TA/HFDAV/RRE/IM PL/PREG/KTL/QTEVREMPKRC AVFLAINLGDRFDIKADEGGIT DIEFITQYLVLYAHEKPKLTR WSDNVRILELLAQNDIMEEQEA MALTRAYTTLRDELHHLALQE LPGHVSEDCFTAERELVRASW QKWLVVEE
10680	41048	A	10742	2	640	
10681	41049	C	10743	1	2358	
10682	41050	A	10744	1264	1894	RGDKPQHIVTVHRADVVKQAQL FKQRRARHYHAFNMFFGAFEQL FNWRHARENFFPAGKQLCQMV VERADIFGNRHFIVVENHQHIR TDIARVIHRFKRHACGNRAIAN DTDGAAIFAFTAILYGIQFSCAS FYLFVVYEHGSLKTVGCPLQEV /WRTALESCKPAHIQLSGVLAI/S SIVMQSVNAMPSWSGYSSQA ASAARWLLARSLIC

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10683	41051	A	10745	872	3111	VLKPNHLTERKGC/GFACGRYG KLGAWELDYSPLDIIIFLND CP MNAMTAGERKIDGRQFYLR LA QRIMHLFSTRTSSGILYEVD ARL RPSGAAGMLVTSAEAFADYQ K NEAWTWEHQALVRARVVYGD PQLTAHFDAVRREIMTLPREGK TLQTEVREMREKMRAHLGNKH RDRFDIKADEGGITNIEFITQYL VLR YAHEKPKLTGWSDNVRIL ELLAQNDIMEEQEAMALTRAY TTLREPRFSRFSFLWGCSPGLGF DYLADLFKIDNSHGGRFKTVLL TFLPPALLYLIFPNGFIYGIGGA GLCATIWAVIIPAVLAIAKARKKF PNQMFTVWGGNLIPAIVILFVLP WFYFIPPGLICSLVYRASPPIS MPAKAVAYCVLRISGGDGSCD VICRGKVADRSKFWNPWNWSKT HTEPTQQSQTATSNRTSATTAE QRSDEKEGNNRTRHEEQRSQN ATQHKRRERATTTQKTCSETVT PTTMNMCNEPELRRHARVLP VLYIVQRRYDESHLRISISACNV CRTERHAVHTDETIHSTVVADC KERVAVMRLRLPLCAACRHIG DVIVYSAYVCEHRCMRLLATR RHYVVTLTTHLRRRLFLTEVNA RYVCIYDDEHSRSSTVTHAHPI DHQSAHYDTYVYDIGTVSYMR LNTSVRLIRRAHTCTSRALMD SHSKDGRPMDYASAVVTHPL
10684	41052	A	10746	1577	1668	TINPPELAFVKTVH*SPRICLGF HIFLLN
10685	41053	A	10747	486	674	HWWKNWRRCWIPVIWH*RRSR TIWRCKK WITASTLLSRSSPSK LPPCMSGFQPVVAGRKR
10686	41054	A	10748	254	396	ADDQIPHSKTHLKLSEVEENQ Q*EI*RPLLQ*GGMSVPRCVHG RSG
10687	41055	A	10749	3	674	ISAEINRPFAIRGDLG/VVWERQ KQETGWRSWVP/PHVHAEDII LGNPPDI/PEVTMVHLPRVEATL /APLALLTKTVWLPWIKLESPRI RFQFSHHVRRVLCEDAYYKL TLAQVEKLKNGGKVIASDELM TKFRIPNTLEFCAPVMADAPAI ALLRLSLACDLAQAMMPAFH KPISSSFVNDYAGTSFACAASD MDERRMLNAPLSRLTLVEKL RRCWIPVIRH

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10688	41056	A	10750	1	1755	
10689	41057	A	10751	1	1662	MSKPKYPFEKRLEVVNHYFTT DDGYRIISARFGVPRQTQVRTWV ALYEKHGEKGLIPKPKGVSADP ELRIKVVKAVIEQHMSLNQAA AHFMLAGSGSVARWLKVYEER GEAGLRALKIGTKRNIAISVDPE KAASALELSKDRRIEDLERQAL SKPDKYADVKKRISEIYHENRG RYGYRRVTLSLHREGKQINHK AVQRLMGTLSLKAAIKVKRYR SYRGEISSTTKLFLTAFRMIVVA IILIAITFDWNRLKPTINQKVS AE LNRPF AIRGDLGVVWERQKQE TGWRSWVPWPHVHAEDIILGN PPDIPEVTMVHLPRVEATLAPL ALLTKTVWLPWIKLEKPDARLI RLSEKNNNWTFLNANDD/NKD ANAINRRHGRFGWIIFFSIKGG S PLMTNDIHGSLVYTTGKPRPKL EGDVESRQLRLADLGPLIGVDS GKGAEKSKRSEQKKGEKSVQP AGKVLPYDRFETDKWDVMDA DVRFKGRRIEHGSSLPISDLSTH I ILKNADLRLQPLKFGMAGGSIA ANIHLEGDKKPMQGRADIQAR RLKLKELMPDVN
10690	41058	A	10752	1	477	SELGHAGLNGDILVWNPVLED AFELSSMGIRVAD\ADTLKHQLA GDEDRLLEWHQALLRGEMP QTIGGGIGQSRLTMLLLQLAHI GQVQCGVWAAA VRESVPSLPL QLFHFTRHVVQRPLSDKIRNHQ RIGIKPPALQAFHNGAKTTGKI GADTKLLA
10691	41059	A	10753	414	794	RPSPLPTGLGDTGLGFLPRFIEM EKL PFDVAEAEQELQEGPLPEY SGPGLALAKWG\LG\LKQVVM ASLFVALFLPFGR\AQELSLACL LTSLVVTLLKNINSMTAGILVC LVTTVSPGLIKVLIYDQ
10692	41060	A	10754	88	227	
10693	41061	A	10755	26	261	
10694	41062	A	10756	164	361	
10695	41063	A	10757	1347	1656	RVGRPGHRASAQSGGNPQNHR RLGEPVSARHPAYLSTGSGDAA AARYRRSA*SLRR*SRASSHPPE RAGTPVAPGTIDIFRWRTAARQ HRPRLYRRLPHSAA

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10696	41064	A	10758	2096	2248	RLIGLHGQNSRSVPQLPMESAS VA*RCTAALDGGVSSTSTRWLF ASCTRL
10697	41065	A	10759	1	2240	
10698	41066	A	10760	1	1082	MEHERYVGISNMLKPELYLA VGISGQIQHMGANASQTIFAI NKDKNAPIFYADYGIVGDAG ALMSEDI FDAIIVGAGLAGSVA ALVLAREGAQVLVIERGNSAG AKNVTGGRLYAHSLEHIIPGFA DSAPVERLITHEKLAFMTEKSA MTMDYCNGDETSPSQRYSVL RSKFDAWLMEQAEEAGAQLIT GIRVDNLVQRDGKVVGV EADG NRVMKKILTTPIKAEDLQDIRV GDVIYL*RHRSLSVG*RAESGG* RSGRIVKRTG
10699	41067	A	10761	987	1191	
10700	41068	B	10762	1	1506	
10701	41069	A	10763	204	527	GPDRQCIGPLAE*NTGNSHCAA LRQQRAEGRWWQKPHGEWRA ATADGRTYAAISAQATAPQSPA GQSTMPRPPRWLSTPALVMPA VTVDRQITPASVSTTKQAISA
10702	41070	A	10764	1041	3024	
10703	41071	B	10765	1	763	
10704	41072	A	10766	729	989	HLTRQGIPTDLQLRVLSVRRKT NKQKGHPHRKRICTSPSSKTKS R*NHKDGEKTEQKNWKL*NAE HLSSSKGTQFLT SNGPKLDGE

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10705	41073	A	10767	89	1755	LSEGKLTNRKDIHTKTPSVRHH HQRPKCWKFWPGHSGRRRK*R /CIQVGKEEVKLSLFADDMIVY LENPIVSAQNLLKLISNFSKVSG YKINVQKSQAFLYTNNRQTESQ IMTELPFTTASKRIKYLGIQLTR DVKDLFKENYKPLLNEIKEDTN KWKNIPCSWVGRINIVKMAILP KVIYRFNAIPIKLPMFFIELEKT TLKFIWNQKRARIAKSILSQKN KAGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM LHIYNYLIFDKPEKNKQWGKDS LFNIWCWENWLAICRKLKLDPF LTPYTKINSRWIKDLNVRSTIK TLEENLGNTIQDIGMGKDFMSK TPKAMATKAKIDKWDLIKLKSF CTAKETTISVNRQPTWEKIFAI YSSDKGLISRIYNELKQIYKKKT NNPIKKWVKDTNRHFSKEDIYA AKRHMTKCSSLAVREMQIKT TMRYHLTPVEEVVRAEMAKTR RCQNVKGASEEGIRALALFLIN LTVHMEGNHIDGDIEIQTNRSPL QAPGEICESFTALMAMQLLSKL FWS
10706	41074	A	10768	533	760	
10707	41075	A	10769	1067	1225	
10708	41076	A	10770	1080	1250	SSGLHSWDARLVQYTQINKYN PAYKQSQRQKPHDYLNRCRKS L*QNSTTLHAKNSQ
10709	41077	C	10771	55	1842	
10710	41078	A	10772	1575	1745	SSGLHPWDARLVQYTQINKCN PAYKQSQRQKPHDYLNRCRKS L*QNSTTLHAKNSQ
10711	41079	A	10773	2798	2871	
10712	41080	A	10774	601	876	
10713	41081	A	10775	1194	1421	

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10714	41082	A	10776	587	1683	GWKFWPGQSGRRRK*/R/CIQLG KEKVKLSLFADDMIVYLENPIV SAQNLLKLISNFSKVSGYKINV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLLKEIKEDTNKWKN PCSWVGRISIVKMAILPKVIYRF NAIPIKLPMTFFTELEKTTLKFI WNQKRARIAKSILSQKNKAGGI TLPDFKLYYKATVTKTAWCWY QNRDIDQWNGTEPSEIMPHIYN YLIFDKPEKNKQWGKDSLFNK WCWENWLAICRKLKLDPFLTP YTKINSRWIKDLNVRPKTIKTLE ENLGITIQDIGVGKDFMSKTPK AMATKAKIDKWDLIKLSFCT AKETTVRVNRQPTTW
10715	41083	A	10777	1260	2176	SSGLHPWDARLVQYMQINQCN PAYKQNQRQKPHDYLNRCRKG L*QNSTTLHAKNS/AIN*CWKF WPGQLGRRRK*/R/CIQLGKEEV KLSLFADDMIVYLENPIISAQNL LKLISNFSKVSGYKINVQKSQA FLYTNNRQTESQIMSELPFTIAS KRIKYLGIQLTRDVKDLFKENY KPLLNEIKEDTNKWKNIPCSWI GRINIVKMAILPKVIYRFNAIPIK LPMTFFTELEKTTLKFIWNQKR ARITKSILSQKNKAGGITLPDLK LYYKAIVTQNSMVLLPKQRYR PMEQNRALRNNAAYLQLSDL
10716	41084	A	10778	3813	3983	SSGLHPWDARLVQYTQINKCN PAYKQSQRQKPHDYLNRCRKS L*QNSTTLHAKNSQ
10717	41085	A	10779	1312	3348	
10718	41086	A	10780	1636	1815	
10719	41087	A	10781	67	403	KFLCRPPIIRPPKTFNTLIVLARR CIQCFRFFDIACFN RVGKGFGV GHQLRGFRHDIRGFAQWTHLP DGCAFRDRCYAAGAQCENVPA LTACGDNNQRGACWYPQQEV
10720	41088	A	10782	506	915	WASVKSPVPCWNCWISHRRRV TCRHVRFAPGFNLAKAV/QGAA LVITGKGRIDSQTAGGKAPLGV ASVANQFNVPVIGIAGVLGDGV EVVPQYGIDAVFSILPRLAPLAE VLASGETNLFNSARNIACAIIKIG QGIKN
10721	41089	A	10783	1	906	

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10722	41090	A	10784	2	597	SILKVACDVDNPLVGARGAAA VFGPQKGATPEMVEELEQGLQ NYARVLHQPEINVCQMAGIA GAAGGMGIAAPVFFNGDIKPGI EIVLNAVNLAAQAVQGAALVITG EGRIDSQTAGGKAPLGVASVA KQFNVPCLDGLLAAVVDGVEV VHQYGDAGFNILPFLAPLAEV LASGETNLFNSARNIACAIGQ
10723	41091	A	10785	1	1140	
10724	41092	A	10786	13	628	LLIPARPPGINPYYWKVSEANLI RYFQQVGDSVTLPMVLYNFPAL LTGQDLTPALVKTLADSRNIIIG IKDTIDSVAPHLRSMIHTVKGAAH PHFTVLCGYHDHFLNTLLGGD GAISASGNFAPQSVNLLKAW RDGDVAKAAGYHQTLLQIPQM YQLDTPFVNVKEAIVLCGRPV STHVLPPASPLDEPRKAQLKTL LQQLKLW
10725	41093	A	10787	3	1185	EQSGRGARDGGARDGVREGG\ SWTQQHGLPLTKVELATVAEY PVCLWQRLTLSPQYGSIP/RGD QSDGWKVDYNGPFSWKGQH FVINGIDTCGCKFAIPVCSASA KLLPMSSQNVYHRDILHRIDSE QGTHFRVKEVQQWALGRGFY WSYYISHHPEAAGLVEQCNGIL KTPSQFQMGRNTLQGWGKVLP SLEGCAFSSSKSNLCSVVLKVF VPKEGMVPPGDTTMIILNCKLR LPPMPLNLLASKEVTVLD/YQG EIGQLLHNRGKEECVWNTGDC LTYLLILPSSVIKVKKEKPQPHPG RTINGPDPSGMKTWVTPPAGA VFLIGSWLRYDYGQYTWRAAS SQMLDRKGMNLAASNLFIHIGILG IFVGHFFGMLTPHWMYEAMTY GSCDTDNANV
10726	41094	A	10788	396	504	WKRLERRAIQGDSPVHKNARA GELDE*AATRAIPG
10727	41095	A	10789	24	611	EILPVPGPVVIWA/AIFRRIAGES WSAIVISGLSIARHAQQKRIITFT ASLAARLEIALKIVRNADGTES ASEQLYQVVGAGCKMPWQSE AMKDVLCIDKRRMLMRTGGTE TSKYPEEKSTEIPPVAASERGG AQSLNQCATEAVVLTRVDSHL KVGDSLSTTSFLKKFAARFGG QLEKALGLGSMQAFSDIRGL
10728	41096	A	10790	212	578	

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10729	41097	A	10791	1	1707	
10730	41098	A	10792	3	313	NAE/TVKMFTTSSKEDATFGL/G WRVNGNATMTPTFGT/LASPQT YGHTGSPPLPPICPVRPPGYLRR LSPRFPRLFGISLPQRPPGILERS LQRRRNPSGWRRRNQ
10731	41099	A	10793	1	1992	MDVQSAADDTGLPMLVVVRGPF NVVWQRLPAALEKVG MKVTD STRSQGNMAVTYKPLSDSDWQ ELGASDPGLASGDYKLQVGDL DNRSSLQFIDPKGHTLTQSQND ALENAILAVIRHEICLSDVVRIR ASRRFDKTSCTPDRQKILKLG LLPAGWLADVDPRLVGVMNV WTLLVPAALFFFGAGMLFPLAT SGAMEPFPFLAGTAGALVGGL QNIGSGVLASLSAMLPQTGQPG VYDDLNGIVDRAVLAAAGDAD VASGAARLSARHSIVISSMGE RCCFIRSRTICGFLAAGVGLD QLAPDFATPVIRELLALLCLFS GGLAMYGYLRWLRNEKAMRL KEDLPYTNSLLIISLILMVVAVI VMGLWIPPTCIVDDRMAYIPG LADSPNDTIKGKNTLRISDLLH HSGGFADPQYPNKAVAGALY SQDKGQTLEMIKRTPLEYQPGS KHIYSDVDYMLLGFIVESVTGQ PLDRYVEESIYRPLGLTHTVFN LLKGFKPQQIAATELNGNTRDG VIHFPNIRTSTLWGQVHDEKAF YSMGGVSGHAGLFSNTGDIALF NAETVKMFTTSSKEDATFGLG WRVNGNATMTPTFGTLASPQT YGHTGWTGTVTVIDPVNHMTI VMSLNKPHSPVADPQKNPTMF
10732	41100	A	10794	2	137	NCLSPVSAN*WPAKTGRPIPLPS ATVTASTRNVLSKHWRIWVST VC
10733	41101	A	10795	271	553	ATQRQDLHFVRSPGDAVYTQIT PEAADAVVARNPDTAQHLHC/ VYP/HTSNAALAKYLHIAASP EVMVPLSAFHAASYSMFFMEF NLIAMWANFS

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10734	41102	A	10796	1	747	MLLGLHSLAAFLQRESFSGKQS WGCQLAALLQRRITKMTEAMK ITLSTQPADARWGEKATYSINN DGITLHLNGADDLGLIQAARK IDGLGIKHVQLSGEGWDADRC WAFWQGYKAPKGTRKVVWPD LDDAQRQELDNRLMIIDWVRD TINAPAEELGPSQLAQRAVDLIS NVAGDRVITYRITKGEDLREQG YMGLHTVGRGSPVLLALD YNPTGDKEAPVYACLLGDIITY RNGKKVEVMNTDAEGRLLV
10735	41103	A	10797	444	548	
10736	41104	A	10798	951	1648	TTGRFPPSVQDSFVNESSRMGL PDEFTLQREFERARQQGALAQ W/IAAFEGGFTGIVATLDTGRPG PVMAFRVMDALDLSEEQDVS HRPYRDGFASCNAGMMHACG HDGHTAIGLGLAHTLKQFESGL HGVIKLIFQPAEEGTRGARAMV DAGVVDDVDYFTAVHIGTGVP AGTVVCGSDNFMATTKFDAHF TGTAAHAGAKPEDGHNALLAA /AQATLALHAIAPHSEGASRV
10737	41105	A	10799	1495	2282	FDRHVGEFFLNQLETTNSLAKL HALIGVARRIFKGAHRRTVVGE GYQETFMVELFFDAVKA VTFPT EHVFLVQFHVVKGDFTAAIHTQ TELFKFGHFDARFAHINKPFGV DRFVRRSPVARHHHDVRGVGA AGNKTLLTIKINLTISTGISRFQA THVGARARFGDR*VRTDSTTTV GHRDCIITGGHR/HKSFQPGHEA PQAVPLPGRFHHH*PSHDHCR* LVSLAGAA YRSPQDPVPYMPIS PGLDWVRQIVCCVMASDAD
10738	41106	B	10800	1	3618	
10739	41107	A	10801	3	490	TGIVATLDT/GRPGPVMAFRVD MDALD/LSEEQDVSHRPYRDGF /ASCNAGMMHACGHDGHTAIG LGLAHTLKQFESGL/HGVIKLIF QLHRYAAHAGAKPEDGHNALL /AAAQATLALHAIAPHSE/GASR VNVGVMQAGSGR/NVVPASAL LRQPTRSALNTTQQLNAR

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10740	41108	A	10802	1	513	MGIESLQAFILRSAGALGVWVY TFLEIRILPTGLHHFIYQGFISSP AAVEGGIQMYWAQHLQEFSL AEPLKSLFPEGGFALHGNSKIFG AVGIYLAMYFAAAPENRVKVA RLIPTPLAAMLVVIPEPLEFTF LFISPILYAVHAVLTASMSPVM YLPGVVGNMGEGKID
10741	41109	A	10803	1	4941	
10742	41110	A	10804	1	1083	
10743	41111	A	10805	1	1363	MPVRKNMIMNEGNITPTNGC RIRASCGVPMICINQLKDGNKK PSPLTAARMKQKAILFLIRTVR TDTHVVEDTGRKGSRKANSRE RFPDAFPEFHGFADFRVLRQAM IQIWLVSVMQHVHNVCTTDAC RIVQTRIVVTAGFQLSNASLVA MRRWVYRVRRIQYRRTTQTAV FHSTHGNYREGQPVGTLIDDRY KANENVELVHYAQPILLNEADS LAKVMPSDIPLKQRRWLGLQM LEGDIYSRAYAGEASQHLDAAL ARLRNEMDDPALHIADARYQCI AAICDVVSNTLTAEPSRFTTAV DKIVLNRFLGLPIFLFVMYLMF LLAINIGGALQPLFDVGSVALF VHGIQWIGYTLHFDPDLTIFLA QGLGGGINTVLPVPQIGMMYV CFSSFLKTPALACREIFVPLMRL RVNLRWYPPVL*RISWWTNSRI PTTFSTRGSACWRATPAK
10744	41112	A	10806	199	1083	RLFEHPRLGVA AVENGALGKR SAVVLPGFDVNHKTRFIEFVK SAIEGNRLTVRAIGPQFFTQTPV IVFNQGVSGAQNIAGRAVLLQ TNSFGTGEIHKETLNILHLRPAPA VD*LVVITDDHDFAGVARQQA DPRVLNVVGILEFVHQDIGKTF AVVLQDMRLVKPQLVSAQQQL GEVHQARAVTRFLIRLIHLLPGL LHRITVALNMMRTQAFIFLAVD VPHCLPRRPLLVEVHGFDQTQ KVAAWRGHRFALFVIKAVEQV RNVHWHRRVKIGWAEKRNAL RQKAGNFQMRQ
10745	41113	A	10807	49	273	DFLGRGAFNVINIGAWASRPVQ GSTVDLSHGLHLVLHLKNNL*F YGFDSHFLKSFFYKGTSISIQVE VGISQGNL
10746	41114	B	10808	91	2183	

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10747	41115	A	10809	8	219	FSLWPL/KKFSNRFLKKKPMEF GSWTTREILIASFAGVRGAILTA GVLSIPLLLPDGNVFPARYELVF LAAV
10748	41116	A	10810	84	509	
10749	41117	A	10811	3	163	ENTTWLYAD*NAGRDADFGHA KRKWTLWLAILAAVATAMAN RQPGAGLFALFT
10750	41118	A	10812	1	707	MGWRMGIWLRVFTVAKHLQR AESDQIGFRLKEHCWKRYAVR HPVKDVSGFSPVLTVMRAPQ SN/PARTVGWLRMFRLRKR/ RKPRPLPLSPLHMDV/HAGNLV HSASGLKLIDW/EYAGDGDIAL ELAAVW/VENTEQHRQLVNDY ATR/AKIQPAQLWRQVRRWLP/ WLLMLKAGWFEYRWRQ/TGD RQFIRLADDSWRQLHRSNKESS RELVARLRVFAQSSGGAVDQE GGRVQCFREGL
10751	41119	A	10813	1	227	SFINVERYRAEPQTADAAPLKR GAFGSWLPEPDHYAED/DHQQ YLHKNPYGYCGIGGIGVCQAY KIVQIQYIARTA
10752	41120	A	10814	1	283	
10753	41121	A	10815	315	569	
10754	41122	A	10816	65	580	SDRS*IPVRPTHRSNGNRHDGSS GYCRCYG*HG*HRGIRYRCWPE KSQTRSGLLPLTVNYQERTYA AGRIPGSFFRREGRPSEGETLIA RLIDRPIRPLFPEGFVNEVQVIA TVVSVNPQVNPDIVAMIGASAA LSLSGIPFNGPIGAARVGYNDQ YVLNPTQDELKESK
10755	41123	A	10817	235	1236	TDHDGRNDTQRIGSGERNRPF NANTAHHQCRFAGFALFCGEIF TTNQRROPHPQRRDNTNTHGSD GHHGINTLSNANQHEGIGHFVN RTAHIERQHQT DHRQHNNAA NSGTEVSQ*AR*HA AV*RYVAE REIHSGDRCGKRNSAHKIMPG WWCALPDTAPSLSKVVFVKGC PHLCPWCANPESISGKIQTVRRE AKCLHCAKCLRDADECPSGAF ERIGRDISLDALEREVMKDDIFF RTSGGGVTLYRGEDPAEDARY AHTNQPRQNKAVVDDEATDV GGAGTVKLNRCQIARISRQDVI TVASRCEHGFCHPCDTVHRHD GDHTGTEDFVF
10756	41124	A	10818	1	400	

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10757	41125	A	10819	783	1116	SVLHLYEQTNEHDTGRYP KTLDIVPAFEASHLLWQSYENS WEQIFSASVGASWQKHGTDV LTQLGYGQRHNDIADAGATL RWEKRPYDGDREHNLVVEFD MTRF
10758	41126	A	10820	3	474	TCGE/AASIVDRIRGFFEPSSILV STLVLTLRPTGLPLVTDLSLPM RLLPTEIMAGSPIRS/RDISLGDD PGINGQRAQGTWERWTVRADE PQAFHIEGVMFQIRNVNGAMPF PEDRGWKDTVWVDGQVELLV YFGQPSWAHFQFYFNSQTHKV GPRAVA
10759	41127	B	10821	93	786	
10760	41128	A	10822	191	748	GPATPRQPFKVLASLGRVLVQH GRWDAQHLHNAVHLVDLIGAT EEGLSGVHLHKDAAQGPVHNG QVVGCAQEHLR*AVEAALDIL VDPLAKLAGAAEVHNLGGAAL GVAQQDVFGLAVVNDAAEQ AWPERAVPCRAAPASGSGSA RRRGSGCCAGGRTGCRTAAQIP STSGFRNMKCRFRCTI
10761	41129	B	10823	1	2724	
10762	41130	B	10824	116	2458	
10763	41131	A	10825	1	1317	

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10764	41132	A	10826	99	2052	NPADGRTGFTLCATGEALSSAT IAAAERRQALQEGCDDILS/HG DADMVSMAR/PFLADAELLSK AQSGRA/DEINTCIGCNQACLD Q/IFVGKVTSCLVNPRACH/ETK MPILPAVQKKNLAVVGAGPAG LAFANFIKQIPGKEEFYD/TL/ RYYRRMIEVTGVTCLK/NHTVT ADQLQAFDETILAVG/IVRTPPI DGIDHP/KVLSYPDVLDRDKAPV/ SN/KVAIIGCGGIGFDTAM/YLS QPGESTSQNIAGFC/NEWGIDSS LQQADCDAPAKASKPGQGLGK TTGWI/HR TTL/LSRGVKMIPGV S/YQKIDDDGLHV VINGANQGS DMLRLQGELDSASRIGRRSAAP KLGSLNDGRCFINCHILDRLPY KGLVPACSWNGGSLDPLEGRP DEPHVEVLGIPPAAMLDAQAPRL ASTLNGCLGVAGPYEDERTQE GLPGPRDTAAEEVLGVQTGGA GSRGRVVRGPQADLPSASGPGA ACWSMSPPPDQPPCVLAHGFFR RTPPTSTQQRPAEQCFHSPAPLEL PLSSTSSILSFAEYGNAMAWLY RGKILPSGTPDDLKAQSANDGN PDPTMEKAFIQLIHDGIRSIAMS NPILSCRRYGRYQEWCLTIPAV FISAPYVRRYVRFHEHQEGGGV RQEATVREIPLAIAVIPNSRTPC
10765	41133	A	10827	1	525	DAMVSSWNRAAPNTIPTAAKA GGNYLSSLLVGSEARRHGYQE GIALDVNGYISEGAGENLFEVK DGVLFTP/PGFTSSALPGITRDAI IKLAKELGIEVREQVLSR/EKS LYLADEVFMSGTAGEITPR\RS GNGYSLAKGRCPVTKRIQH ALQGVYSWVTPGYFESVRCTA
10766	41134	A	10828	8	573	REPAGENGPPVCDGAMLDLKA/ WGSECHQQLTGRDNQQIKRSIY LLPERAKLAELRLVIPGQVDY LQHIEELAAFIKGLGDVPVRLN AFHAHGVYGEAQSWASATPED VEPLADALKVRGTCRPDKTRQ ASHQALCANCRRRERLIRPTV RHKPVGMIRRDKRIRHYAPTA GCGVNALSGLRFGTDL

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10767	41135	A	10829	1	479	SNATNGIEPPRGYVSIKASKDGI LRQVVPDYEHLHDAYELLGEM PGNDGYLQLVGIMQKFIDQSI ANTNYDPSRFPSGKVPMQQLL KDLLTAYKFGVKTLYYQNTR/G RR*RRTRRSGAVNPGTMGCESG ACKNPGYLRLMPGCRRTPLIPA LPGFGFW
10768	41136	A	10830	1	443	MDSLMDMLASTQGRMDDQR VTVSSLPGFQPVGSKAYKPSRR PDKAFTPHPASQYQILHAPLVA AIVSGLTAARVVFVRLQQPSLG VLSNTSGCDATNVVGRQLQDNA SVSPGIVHTDSVIWRSCQVRRS AVHTLWRQKTRLFDAVDA
10769	41137	A	10831	1	323	MDLVTGSRKVIIAMEHCAKDG SAKILRRCTMPLTAQHAGHML VTELA VVRSFDGKMWLTEIAD GPTSQAQPAATYRIPLSNSRVR RRYRHRYYRYNLSIRKKRHRPL
10770	41138	A	10832	526	975	TPYPAYVQHVTPGRIRRGKRI RQCLPVLESRFHNTQKSRGETE GASGFSLQHHLGDSSRAAPGPY RVSTAAADSGGRAGSSAPSALV PRGC*GPSLAPAGRSQR*HRGG GQLSPAAPRTANKAAGLGPPA RLNFFIRAQCDSRINDITR
10771	41139	A	10833	1906	2049	PLSIIEADFRIWANAG*RMVAGI KPSIARVPLVLQVSALEVPEQC YRH
10772	41140	A	10834	1	808	MPKPNTRWSAWGLRRLKRKW SVARGSNLNRSVQYEFTGRGD RIGWVKGIDDNWHLTLFIENGR ILDYPARPLKTGLLEIAKIHKGD FRITANQNLIAGVPESEKAKIE KIAKESGLMNAVSPQRENSMA CVSFPTCPLAMAEAEERFLPSFID NIDNLMAKHGVSDEHIVMRVT GCPNGCGRAMLAEVGLVGKAP GRYNLHLGGNRIGTRIPQITRRI EHRANDARTHRKVAEAFTRFA LFRPAPYQFIKRRQDFRLVMFSI YMPVPS

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10773	41141	A	10835	248	830	HHYRKMNIQQSKWLIVTVCDG KLNWLLSGSKVCCTWMLCVQ/ SEPELAKAWIFANLLAAFLIDDI IQPSLDFPPRRAEITIAADGTISA LNPGDPANTVAPVGRLLVKA TGSEVQRGDDGIFRLSAETQAT RGPVLQADPTLRVMSGVLEGS NVNAVAAMSDMIASARRFEMQ MKVISSVDDNAGRANQLLSMS
10774	41142	B	10836	328	481	
10775	41143	A	10837	14	675	FRKLQVCWLPRPHLRPWWTCK PRWFGSCLRVFL/LERVI/GDV/ WGLRLWSALGVAFFG/WAFITS LQAKRGWMRIVPIILLAAALVS VRPLQDWAFGATHTAQTQTHL NFTQIQTVDELNQALVEAQGKP VMLDLYADWCVACKEFEKYTF SDPQVQKALADTVLLQANVTA NDAQDVALLKHLNVGLPTILF FDGQQQEHPQARVTGFMDAET FSAHLRDRQP
10776	41144	A	10838	1	1413	GMALTYTALGLVVAAGLQFQ AALQHPYVLIG/LAIVFTLLAMS MFGLFTLQLPSSLQTRLTMSN RQQGGSPG/GAILLYIAQSGNM WLGGGTLYLYALGMGLPLMLI TVFGNRLLPKSGPWMEQVKTA FGFVILALPVNIAPGSLDKALNQ YAAHSGFTLSVDASLTRGKQSN GLHGDYDVESGLQQLLDGSGL QVKPLGNNSWTLEPAPAPKED ALTVVGDWLGDARENDVFEH AGARDVIRREDFAKTGATTMR EVLNRIPGVSAPENNGTGSDDL AMNFGIRGLNPRLASRSTVLM GIPRPLRLRSAAAFTGSRFARQ HGCHCTWYAVVVRCVTDTS VGGVNVFVTRAI PQDFGIEAGIL MSDLKHGSLVGACLGRLGPGA VLYLAVAVLGVRVRRGVVLVC PLGGTGLGYSCQGGAFQFAAS CFLGRYGVVQGVHVCFGPRSV FLDDCLRFDLPCLVWLSCPR

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10777	41145	A	10839	1	908	LLKPFHVIAIATGRSLAVFCMG RLRTICSHATPPASAI/LLYI/AQS GTWGGGGTLYLYALGMGLPL MLITVFGTRLLPKSGPWMEQV KTAFGYVILALPVFLLERVIGD VWGLRLWSALGVAFFGWAFIT SLQAKRGWMRIVQIILLAAALV SVRPLQDWAFGATHGTQTQTH LNFTQIKTVDELNQAALVEAKGK PVMLDLYADWCVACKEFEKYT FSDPQVQKALADTVLLQANVT ANDAQDVPTSAPFISPPNALVAI IVQLRFGDFYNRVSKGSRPTVF GRTLKARRITLSEKSILKAKIH
10778	41146	A	10840	3	808	SSGGHGRRAAGRLQHPLLRVH VPVVDTSVPCSRQLQWHHLPL CPGQLQHGHFHGPWCFFPSG*G *GQGGRLPGSAVQERGCARYP GPHEVVCHVPLLPPAALLPLQR L*QLCRGL*PPLPLGQ/PTASGV ETIATSSCSCCHSVHTWWASWP SAWSTC*TTLRGWEPRTPPSRIL GSCGPHCRGDVDRGHVHPGE* AFQSLVPCQGTGPKGPMAPP*VG RGVSP/PGTRVEAALSCESP RQSMCFNLHTHSIDPKQSRRPY SDNVGKE
10779	41147	A	10841	2	646	CSWQPAVPTQPQAGPSAPRQG LPGHSRGAQPALVSPHKGLTPV PGTPA/PASTPPAPAGGGLPSP AAGAPPAHCPG/HPPAPATAAP VPGLCGPCPSLPACQTR/PPTH VNTKKRV/PG/VRPAARRPWP GCTWRGARTVTFHQLNPGVN CQMLTVGRSGIRPTCTIASCSV NKLHPQMHPATQPHHRMALSP SHSEGPSHCWGLSLGDISPIPR
10780	41148	A	10842	3	550	

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10781	41149	A	10843	2	1132	LCLVMILYTRRRWCKRRRVLPQ PQKSASAEAAANEIHYIPSVLIGG HGRESLRNARVQGHNSSTLSI RETPILDGYEYDITDLRHHLQR ECMNGGEDFASQVTRTLDLSLQ GCNEKSGMDLTPGGDGRKARL MNKYKDNIIATSPVDSNHQQAT LLSHTSSSQKRKRNKARGMHV *H*GEGDSGTEAENDPQLTFYT DPSRSRRRSRGRNDRGGRNKTT LTLISITSCVIGLVCSSHVNCPLV VKITLHVPEHLIADGEPVLLRM GSQLDASDWLNPAQVVLFSQQ NSSGPWAMDLCARRLLDPCEH QCDPETGRREHRAAGNCQRDH ARAHSVWLGSPPYHDTSLRWS PMYTTMESAPHAFFPSVTADAE
10782	41150	A	10844	3	3935	HASGPGLKMALAGLCALLACC WGPAAVLATAAGDVDPskele CKLKSITVSALPFLRENDLSIMH SPSASEPKLLFSVRNDFPGEMV VVDDLENTLPYFVLEISGNTE DIPLVRWRQQWLENGTLLFHH HQDGAPSLPGQDPTEEPQHESA EEELRILHISVMGGMIALLSIL CLVMILYTRRRWCKRRRVLPQ QKSASAEAAANEIHYIPSVLIGGH GRESLRNARVQGHNSSTLSIR ETPILDGYEYDIT
10783	41151	A	10845	184	357	ALQGWSKNLHPEDIQLGKTPP P*QVAQEGGWSRRVGSdTWIL EEQPGSTTRRVSVGM
10784	41152	A	10846	226	609	VILSSFDLIKHGILLEISDSIQFRG CKRSRIPELGGLEELW*PGDCR QPRP\WRA\GRHLQPGSLGSLVS KHQLRGSRKTL/YSAFRKCHLL SVWEGKPLKI*RGDQVADSSQK KQLAADAHTPYRGGDI

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10785	41153	A	10847	20	1317	SSHQKQMLAPCFLGSLQNWQH HTAGKGK/WVLGTCAFGQLA ASGHMKETRADRSKKLFRHYT VGSYDSFDTSRGGRVRKPYAGF FPDLQDICDEQPRPLHSTLRPAC GGIQPGKQQPMPFAKTDTCASD KHVEKKLERLIHQAVSDAPEPS RVVKGIFIGGLPCARLWVVPYL MGHVQEVTMAEGYERASQATF REQMQEVPCCLQRSTGSSMKT GNKIRRVTDNVLTRSGPLINDIL SVAVDSSVSVLIWMHLFSSHPL GIVRYWGCMGISCKLLLLTRVC YLITPLDLERFPFPNTEQVTFPE RRVSVFLLPLSWCLDTRLPREP GCRSRDSFTHRVSFVSPTPTSG DVPGSHPFCDKPVRRGDDPYIR NDRGTLYSTLQFISTCVQVVG YGHLPGFKSDAAQAVPRLLSQ KRDQNHKEEITDGDERP
10786	41154	A	10848	1930	5781	RAKSPANIIMTGSNSHITILTN VNGLNSPIKRHLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSDLQRDLDSTLIMG DFNTPLSTLDRSTRQKVNKDTQ ELNSALHQADLIDIYRTLHPKST EYTFFSAPHHSYSKIDHILGSEA LLSKCKRTEITNYLSDHSAIKL ELRIKNLTQSR
10787	41155	A	10849	1	3654	
10788	41156	A	10850	1	5127	
10789	41157	A	10851	209	3816	QGRPTFRFRKYREHHKDTFREE QLQDT*SSDSPKLK*RKKC*GQ PERKVKLPTKGSPSD*KRISRQ/ KTLQARRQSWFFEKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITTDPTIEIQTIREYYKHLANK LENLEEMDKFLDTYTLPRLNQE EVESVNRPIGTSEIEAITNSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASII LIPKPRDRTTKKGNFRPISLMNI DAKIL
10790	41158	A	10852	1	3663	

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10791	41159	A	10853	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDDTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQ KELEKQEQTHSKASRRQEITKIR AELKEIETQ
10792	41160	A	10854	1	3354	
10793	41161	A	10855	1	5073	
10794	41162	A	10856	1	3235	
10795	41163	B	10857	1	3300	
10796	41164	A	10858	1	2563	MKAEIKMFFETNENKDDTTNQN LWDAFKAEVESLNRPIGTAEI GAIINSLPTKKSPGPDGFTAEFY QRYKEELVPFLKLFSIEKEEI LPNSFYEASILIPKPGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFFPGMQG WFNIRKSINVIQHINRAKDKNH MIISIDAEKAFDKIQPFMLKTL NKLGDGTYFKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNILLEVLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTSNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRAHITKSILSQKNK AGGITLPDFKLYYKATVTKTA WYCYQNRDIDQWNRTEPSEITP HTYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKLKLD PFLTPYTKINSRWIKDLNVRPKT IKTLEENLGITIQDIGMGKDFMS RTPKAMATKAKIDKWDLIKLK SFCTAKETTIRVNRQPTTWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWEKDMNRHFSKED IYAACKHMKKCSSSLAIREMQI KTTMRYHLTPVRMAIHKSGNN
10797	41165	B	10859	1	3420	
10798	41166	B	10860	1	4019	

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10799	41167	A	10861	1	1825	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHHIYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLTQNHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYHNLWDTFKA VCRGK FIPLNAHKRKQERSKIDTLTSQ KELEKQEQTTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRLLARLIKKKREKNQI DAIKNDKGDITDPTEIQTIRE YCKHLYANKLENLEEMDKFLD TYTLPRLNQEEVESLNR PITGAE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELVPFLKL FQSIEKE GILPNSFYEASIIIPKPGRD TTK KENFRPISLMNIDAKILNKKLA KRIQQHIKKLIHHDQVGFIPGM QGWFNIRKSINVIQHINRAKDK NHMIISIDA EKA FDKIQPPFMLK TLNKLGIKYLGIHLTRDVKDLF KENYKPLLKEIKEDRNKWK NIP CSWVGRINIVKMAILPKNILITL QLLLVLP ELSTLIPLWLPALAGO
10800	41168	A	10862	1	4449	
10801	41169	A	10863	824	3693	AWKGTDRSTRQKVNKDTQEL NSALHQADLIDIYRTLHPKSTE YT/FFSAPHHTYSKIDHIVGSKA LLSKCKRTEIITNYLSDHSAIKL ELRIKNFTQSRSTTWKLNLLLL NDYWVHNEMNAEIKMFFETNE NKDDTTYQNLWDAFKA VCRGK FIALNAHKRKQERSKIDTLTSQ KELEKQEQTTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERITKSDRPLARLIKKKREKNQI DTIKNDKGDIT
10802	41170	A	10864	1	3297	
10803	41171	A	10865	1	4791	
10804	41172	A	10866	3	3316	
10805	41173	B	10867	1	3415	
10806	41174	B	10868	1	4753	
10807	41175	B	10869	1	3384	
10808	41176	A	10870	1	3345	
10809	41177	B	10871	1	3772	
10810	41178	A	10872	1	3720	
10811	41179	A	10873	1	3894	

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10812	41180	A	10874	1	3335	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAELEKETQ
10813	41181	A	10875	1	3780	
10814	41182	A	10876	1	3852	
10815	41183	A	10877	1	3345	
10816	41184	A	10878	965	4362	TWKGTTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEYTFFSAPHHTYSKI DHIVGSKALLSKCERTEIITNYL SDHSAMKLELRIKNLTQNCSTT WKLNNLLLNDYWVHNEMKAE IKMFFETNENKDTTNQNLWDA FKAVCRGKFIALNAHKRKQERS KIDTLTSQLKELEKQEQTTHSKA SRRQEITKIRAELEKETQKTLQ KINESRSWFFERINKIDRPLARLI KKKREKNQIDT
10817	41185	A	10879	1	3921	
10818	41186	A	10880	1	3988	MTGSNSHITILTLNINGLNSAIK RHRLASWIKSQDPSVCCIQETH LMCRDTHRLKIKGWRKIYQAN GKQKKAGVAILVSDKTDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSILDR STRQKVNKDTQELNSALHQAD LIDIYRTLHPKSTEYTFFSAPHH TYSKIDHIVGSKALLSKCKRTEI ITNYLSDHSAIKLELRIKNLTQS RSTTWKLNNL
10819	41187	A	10881	2	462	YFTDRLRLARLAGTPL/IMFGTIA RSGVRIVSREPLNRRAILIISL AVGLGVSQQPLILQFAPEWLKN LLSSGIAAGGITAIVFSLAGHPA LATNAQPMFAFLHQTTFFQNL IRVKEAICSDQFNTTMFRGLQG NSACTKCNPRCLNELTPTE
10820	41188	B	10882	16	163	

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10821	41189	A	10883	2	1509	RDEVNGCIRLVYDMYSTFGFEK IVVKLSTRPEKRIGSDেমWDRA EADLA VALEENNIPFEYQLGEG AFYGP KIEFTLYDCLDRAWQC GTVQLDFSLPSRLSASYVGEDN ERKVPVMIHRAILGSMERFIGIL SEEFAGFFPTWLAPVQVVIMNI TDSQSEYVNELTQKLSNAGIRV KADLRNEKIGFKNRSGELSHLP PINQSKPRNFPSAALPQVPQPTH LSQRPRASPKPPDPERVELSL EEHREMLEGFYEEISKGRKPTLI LRTQLSVRVNAILASLESVKPL YTMALGLLVKYPDSALGQLRIE STVDGSRLYITGNGVLFQHVKF HAFLLYLGYTPQAAREVRIMQF CHTLREFALEYRTCERERVLQQQ QKQATYRERNKTRGRMITETE KFSGVAGEAPSNPSVPVAVSSG PGRGDADSHASMKSLTSPED TTHNRRSRDRHGPRGCQVCSA QPSLLRAVPVADMALMTGKD CPPCPGKRLRGAELGPL
10822	41190	A	10884	296	757	ISRFRRRALSPKAESSLSILPRE KRSPSRTWILTPRRLFSLAISSKS AGNTLSSRIK*KA*ACK*RGR VSTRCRIFLALFIVTIKHRLMMR STASNRQYSISIWITLPCWSARC FSIKIAGIPAEPPRYLLISPGILTG LKINFFTTVSFW
10823	41191	A	10885	1	519	MGLPWQVGMGAIFWGAIGLLL LTIFRVRYWMIANIPVSLRVGIT SGIGLFIGMMGLKNAGVIVANP ETLVSIGNLTSHSVLLGILGFFII AILASRNIIHAAVLVSIVVTTLLG WMLGDVHYNGIVSAPPSVMTV VGHVDLAGPIGNSLV/GCPYFAI LRRFSDGSGGLGRNQI
10824	41192	B	10886	1	3489	
10825	41193	A	10887	817	1528	WGSRDNRDEIRNTLVLDTLRLQ RVCAQRAFLVLFVLGKVTFEEL NFTFILVIQNVRGDTVEEPTVVR DNHRTARELQQGVFQRAQGFD IQVVGWFVEQQHVAANLSRCR LVNTPTQQVRFSTATFRVIWRV TPTAGKLSGGFLFKMYGLPAA AIAIGTLLNQKTARKWAVL*SP PALTSFLTGITIEPIEFSFMFVAPI LYIIHAILAALFMWKFVPETKR KTLEELEALS NRJAAE
10826	41194	C	10888	1	573	

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10827	41195	A	10889	2321	2554	WRKRCVKVRNLSPLCLPDRKL TLPCCSIAIRNCIAKL PVS*LWV ALWGWVTGRLRLNLIFTLTRK RQKLSSSQGSRW
10828	41196	A	10890	1	4350	
10829	41197	A	10891	137	686	KLLELRSKREAGMLERSSSRMV TCSQWAATRNPVVALPIYGFIE RCLVPFGLLHIWNVPFQMQIGE YTNAAGQVFHGDIPRYMAGDP TAGKLSGGFLFKMYGLPASAIA IWHFVKPETRAKVGGMIFAAL TSFLTGITIEPIEFSFMFVAPILYII HAILAG\WHSQSVFFWGCVTVR RSRTV
10830	41198	A	10892	3	3831	SIGMMGLKNAGVIVANPETLVS IGNLTSHSVLLGILGFFIIAIL/AS RNIHAAVLVSIVVTTLLGWML GDVHYNGIVFAPPSVMTVVGH VDLAGSFNLGLAGVIFSMLVN LFDSSGTLIGVTDKAG\LADEK GKFPRMKQALYVDSISSVTGSFI GTFSVTAYIESSGVS VGGRTG LTAVVVGLLFLLVIFLSPLAGM VPGYAAAGALIYVGVLMTSSL ARVNWQDLTESVPFITAVMM PFSFSITEGIAL
10831	41199	A	10893	6	146	
10832	41200	C	10894	1	1197	
10833	41201	A	10895	1	763	MCSEK VAMCCDDDDDDDDDD DDDDDDDDDDYSCSHGFWD FSY TWNTSIPQGH LGMGSPIKGLVE IRDKLGDR TQRVYIQRITGNGL EFENPCKQFRGLTRMYIRRLTR LSVQWYMVALERPVLQKYRY RGSKAHETSHSMSTVTSSNEKQ DNTRIDTQGATNR/VATLRHRE TVLANEVAPYAATDNVLAAS T DVGDVSWKLPVAQCFSPCFAV GTPLHTWQ/SGLLQECQ QEHQQ VTDTPYHCPIPKNVTPSPLK
10834	41202	A	10896	2	412	LFEFTLDVKVRESPIL\FRDESM RTACSPDGLCSNGFGL ELKCPF TSRDFMKFRLGGFEAIKSAYMA QVQYSMWVTGKDAWFFANYD PRMKREGIHHVVVERDPQYMS DFNEMVPEFIEKMDEALAEIGL TVRELGI

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10835	41203	A	10897	3	663	ARGKKPPRRGKEDFWDLSIATR VSVNPIKFPVEA*PFLKPLQQV SIGPLGGRLPLPIGNLLLQVAD GTLSLTGTDLEMEMVARVALV QPHEPGATTVPARKFFDICRGL PEGAEIAVQLEGERMLVRSGRS RFSLSLTPAADFPNLDDWQSEV EFTLPQATMKRLIEATQFSMAH QDVRYYLNGMLFETEGEELRT VATDGHRLAVCSMPIGQSLPSH
10836	41204	A	10898	377	1077	WRGQRCLASVFPRHPGAEGRG RPVFRAETIFL**SRRGLAR/TGR RKLPVKLKAADFPNLDDWQSE VEFTLPQATMKRLIEATQFSMA HQDVRYYLNGMLFETEGEELR TVATDGHRLAVCSMPIGQSLPS HSVIVPRKGVIELMRMLDGGD NPLRVQIGSNNIRAHVGDFITS KLVDGRFPDYRRVLPKNPDKH LEAGCDLLKQAFARAAILSNEK FRGVRLYVSESQLKSRQ
10837	41205	A	10899	591	871	VRGFPSGAELYG*SVSLLILLP NLSNSG/RTGFPVAPLPYSKSPS DFMSLLISTVPGSQL*QPIQRAE LVCTTCSPIVSAPTQGAPTQGAF SH
10838	41206	B	10900	1	1765	
10839	41207	A	10901	1	1177	MKSLIIVNPADCIGCRTCEVAC VVAHPSEQELNADVFLPRLKV QRLDSIKRFWEQMMRIVTAAV MASTLAVSSLSHAAEVGSGDN WHPGEELTQRSTQSHMFDGISL TEHQRQQMRDLMQQARHEQPP VNVSELETMHFPGMLFETEGEE LRTVATDGHRLAVCSMPIGQSL PSHSVIVPRKGVIELMRMLDGG DNPLRVQIGSNNIRAHVGDFIFT SKLVDGRFPDYRRVLPKNPDK HLEAGCDLLKQAFARAAVILSN EKFRGVRLYVSENQLKITANNP DQEEAEILDVPYSGAEMEIGF NVSVMVDVLNALKCENVRMM LTDVSSVQIEDAASQSAAYV GMPMRLEGSPPLGNPEFQKISSP CALYIALCSKARHHTGRYLGLC
10840	41208	A	10902	527	925	

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10841	41209	A	10903	1	1514	MAFGLFWLIWILMSTITRGIDG MSLALFTEMTPPPNTEGGGLAN ALAGSGLLILWATVFGTPLGIM AGIYLAEYGRKSWLAEVIRFIN DILLSAPSIVVGLFVYTIVVAQM EHFSGWAGVIALALLQVPIVIRT TENMLKLVPYSLREAAYALGT PKWKMISAITLKSAVVGNMTRI L\LRMAPIVVKTAPLLFTALSNO FWSTDMMQPIANLPVTIFKFAM SPFAEWQQALAWAGVRNLNFYY GKFHALKNINLDIAKNQVCVC YNQCTESLVNGLYANAAHLVS VGQRSTGNSSVIKARQGSSIRP MIVKYSALCLCRMRSERFIRRT KHKRFDRLQCTCRPDKRSASG NLAFVISLRPVPLVAVVFALFA AFPMFSDVSIQLRHFIFANFLPA TGDVIQRYIEQFVANSNKMTAV GACGLIVTALLMYSIDSALNTI WRSKRARPKIYSFAVYWMITL GPLLAGASLAISSYLLSKQWAI DIDSVNRLGAIILTALITGDT
10842	41210	A	10904	900	1250	WYACDQCQTCLPDHAPECAVA *AKTCCTAIETGTYRQSGRERK QSAMVL*RVRVLL**RRETACH VRAGLL*S*GTALGGHYRRLQQ *NSTGRHAGSGGTPLRQRSSVV SSGVADG
10843	41211	A	10905	626	850	LRFLCLVFNILSRYSLISTVQKFSP AMLNGTLPLENHL*LRNITAIM NLVIFHGLSA*SVCYIPGRGSV MSDRV
10844	41212	A	10906	307	858	
10845	41213	A	10907	698	1115	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRVTE*QRAS*KR *SVTTS/CIMPKPDGLTAAKNLA EAFEHYNEWHPHSGTRGRRAR FSVRATYAAGRLATIPGYRGGP LGLMCGQPNRKPTDGANERLT MIRAATAMSE
10846	41214	B	10908	1	721	
10847	41215	A	10909	1	2615	
10848	41216	B	10910	1	1164	
10849	41217	B	10911	1	1930	
10850	41218	A	10912	689	1033	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRVTE*QRAS*KR *SVTTS/CIMPKPDGLTAAKNLA EAFEHYNEWHPHDGPESVFM PSR*APMTR*KIYSSPPYRSSQR AHRHA

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10851	41219	A	10913	393	686	NPSQLWEAAPPQWKWIQGAGK VSCQLSRAADQLGRQHHISDPC FSIVPLIL*FAAYFPINPAVLKLA PVALYADAIRYNARTPLQGSLL PLTRLVWA
10852	41220	A	10914	1313	2370	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRVTE*QRAS*KR *SVTTS/CIMPKPDGLTAAKNLA EAFEHYNEWHPHRANPDANVV SEDVLRSEVGKSVVNLIHGVRD MAAIRQLKATHDTSVSSEQVD NVRMMLLAMVDDFRCVVIKLA ERIAHLREVKDAPEDERVLAKE ECTNIYAPLANRLGIGQLKWEL EDYCFRYLHPTEYKRIAKLLHE RRLDREHYIEEFVGHLEAEMK AEGVKAENVYGRPKHIYSIWRK MQKKNLAFDELFDVRAVRIVA ERLQDCYAALGIVHTHYRHL DEFDDYVANPKPNQYQSIHTV VLGPGGKTVEIQIRTKQMHEDA ELGVAHWEI
10853	41221	B	10915	1	1556	
10854	41222	A	10916	1566	1947	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRVTE*QRAS*KR *SVTTS/CIMPKPDGLTAAKNLA EAFEHYNEWHPH/ECAGLSLAT GISAAAGL*WARRSFIQRDSRD PRYRAPIRIHPLPGANHRLRQ
10855	41223	B	10917	1	1571	
10856	41224	A	10918	2024	2589	QDMQNLLVLRETSVKPEYPGL KVPEAFR/RIQGRKGEPGEGAY VYRSFVSFQKPRFSCALGGAI AASWAGGGAPSPCGRRAELPW GPGPVGVAQTVCPPERPRRRL RGEEEEAADKVMARRWRKSR RRKRKEMEERMSPEETEGTNF DFAGEAVGQAERKGPFSAAE ESFHKEEKRRRKEQSDLTF
10857	41225	B	10919	690	2724	
10858	41226	A	10920	3892	4338	

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10859	41227	A	10921	2573	3473	ANGARLALPPLGTFQGRQLRRR RPRWRRRRPGEASGPVMRLRG PRPGASAPWDGGSQVAR*WC PFPSPQGWGGSQGGQGDGAR FRTHRAKVQQDGDGR*DEADG VHRHAPLQGRLVLVQVGVADE REDDAGNEGLQHLQQPGYGGH IASDLAGPGPGPHFGGVSHTR DAGEEGGGDGVVPRTA VGQEL DIGGGVDDGGREAE EGRIAGEG DGEVAPRQGEAGLEPAQLHDE DDQGHGEAEAPGEHGPVAHG RPGAHASHQREGHAGRHLQ AKETQGLCQGPRGPHDHGGPQ
10860	41228	A	10922	819	1274	NPLPRLQLRRQLHLPSVRNCCQ TRRCGR*HRQLRQ*ARRKLVR SVYFGSCLRQLLREEWK*Y*RV *VLGWYSAVSTSSLPFDYCF NSDGYRRVDPGSLSGHPFLYQ RYGWQHDDVHQPDGLGPPGS LHPDPACFRCVLRNCGNLLA
10861	41229	A	10923	720	3546	RDGRKPLQPDAAARNCGGSQSQ RSGSRKRRGDRRI/TLMSLKTRK ANRWA*SFRKMAAISTP/RTDI ACAKYRYETLHADRVLYYIDS RQHQLMQAWAIVRKAGYVP ESVPLEHHMFGMMLGKDGP KTRAGGTVKLADLLDEALERA RRLVAERTRYSAKSWKT V VIGEQMIDVLGPEKRRRTTQE KIAIVQQSFPGMTVSLVARQH GVAASQLFLWRKQYQEGSLTA VAAGEQVVPASELAAAMKQ
10862	41230	A	10924	764	1227	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRVRTE*QRAS*KR *SVTTS/CIMPKPDGLTAAKNLA EAFEHYNEWHPHNPTLEWFLS HCHIHKYPSTLIHQGEKAET LYYIGKGSVAVLKDEEGKEMI LSYLNQGDTIGDLGLFEEGQER SAW
10863	41231	A	10925	2467	2653	WLPFGLSHHNSPHPTSWGANG GFCQLLSMSVLIMHSGTLGAH WDFSPVIGLEANRGVGDGS

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10864	41232	A	10926	1	860	MSHQLTFADSEFSSKRRQTRKE IFLSRMEQILPWQNMVEVIEPFY PKAGNGRRPYPLETMLRIHCM QHWYNLSDGAMEDALYEIASM RLFARLSLDSALPDRTTIMNFR HLLAQHQLARQLFKTINRWLAL GVMMTQGTLFDAITIEAPSSTK NKEQQRDPPEMHQTKKGNQWH FGMKAHIGVDAKSGLTHSLVT TAANEHDLNQLGNLLHGEKQF VSAMPATKEPQREELAEVDVD LLIAERPGKVKTLK/TESAQ/GT KRPSTSNT*KPASVPGWSTRFA SSSGSSAS
10865	41233	B	10927	754	910	
10866	41234	A	10928	2395	3454	
10867	41235	A	10929	1	1377	MSCMTPASDGTFFISIDDEEAKQ FRESVVEWLMTNHPHDCPVCE EGGNCHLQDMTVMTGHSFRRY RFTKRTHRNQDLGPFISHEMNR CIACYRCVRYKDYADGTDLG VYGAHDNVYFGRPEDGTLESE FSGNLVEICPTGVFTDKTHSER YNRKWDMQFAPSICQQCSIGCN ISPGERYGELRRIENRYNGTVN HYFLCDRGRFGYGVNLKDRP RQPVQRRGDDFITLNAEQAMQ GAADILRQSKK VIGIGSPRASVE SNFALREL VGEENFYTGIAHGE QERLQLALKVLREGGIYTPALR EIESYDAVLVLGEDVTQTGARV ALAVRQAVKGKAREMAAAQK VADWQIAAILNIGQ\HPLFVT/N VDDTRLDDIAAWTYRAPVEDQ ARLGFAIAHALDNSAPAVDGIE PELQSKIDVIVQALAVFRLVIGE QMIDVLGPEKRRRTTQEKIAN
10868	41236	A	10930	19	586	IAALLKDKHPAMLLLAATKRG KALAARLSVQLNAALVNDATA VDIVDGHICAHRMYGGFAQE KINSPLAIITLAPGVQEPCTSDTS HQCPTETVPYV/APRHEILCRER RA/KAASSVDLSKAKRVVGVG RGLAAQDDLKMHVHELA AVLN AEVGCSRPIAEGENWMERHAQ HKS WNPLSWAPLGSQAHP

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10869	41237	A	10931	1	1364	MLRILCLALCSLLTGTRADPGA LLRLGMDIMNREVQSAMDESH ILEKMAAEAGKKQPGMKPIKGI TNLKVKDVQLPVITLNFVPGVG IFQCVSTGMTVTGKSFMGGNM EIIVALNITATNRLLRDEETGLP VFKSEGCEVILVNVKTNLPSNM LPKMVNKFLDSTLHKVLPGLM CPAIDAVLVYVNRKWTNLSDP MPVGQMGTVKYVLM SAPATT ASYIQLDFSPVVQQQKGKTIKL ADAGEALTFP/RGVMPKA/PPQL LVPATFLSAELALLQKSFHVNI QDTMIGELPPQTTKTLARFIPEV AVAYPKSKPLTTQIKIKKPPKV AMKTGKSLLHLHSTLEMFAAR WRRKAPMSLFLLEEHFNKGG HSLHENQLQMATSLDRLLSLSR KSSSIGNFNERELTGFI SYLEE AYIPVVNDVLQVGLPLPDFLAM NYNLAELDIVE LGGIMEPADI
10870	41238	A	10932	111	415	VSALSLLLHRAPRCRRPSLPPLQ DAGLHGWEHGVQRGRGPAAH RDPV*EGWHHSGHLAQGHSEG *PCGDSETPAGREGKTAGHRTG RCGCRQEQTGAQQD
10871	41239	A	10933	2	219	FLGGEGVIFPRGWWGAAMRFV STGSRHTTP*GSEKSAGPHTQW HQNSK*ATSETRLHSCASEGIVP AGCRPY

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10872	41240	A	10934	1	2358	VPMVVVPPVGAKGNTPATGTT QGKKAEGTQNNQSKKAEGAPNQ GRKAEGTPNQGKKTEGTPNQG KKAEGTPNQGKKA\EGTPNQG KKAEGAHNQGGKVDTPNQG KKVEGAPTQGRKAEGAQNQA KKVEGAQNQGGKKAEGAQNQG KKAEGAQNQGGKKAEGAQNQG KKAEGGQNQGGKTEEAQKQG KKAEGAQIQGKKNEGAQTQGG KAEGAQNQGGKNEGAQTQGG KAEGAQTQGGKADGAQNQGG KAEGAQNQGGKKAEGAQNQGG KAEGAQNQGGKADGAQNQGG KAEGAQNQGGKKAEGAQNQGT KAEGAQNQGGKKAEGAQNQGG KAEGAQNQGGKKAEGAQNQGG KAEGAQNQGGKKAEGAQNQGG KAEGAQNQGGKKAEGAQNQGG KAEGAQNQGGKKAEGAQNQGG KVEGAQNQGGKKAEGAQNQGG KAEGAQNQGGKKAEGAQNQGG KGEGAQNQGGKTEGAQGGKA ERSPNQGGK\GEGAPIQGGKAD SVANQGTKVEGITNQGGKAEG SPSEGKKAEGSPNQGGKADAA ANQGGKTESAFVQGGNTDVAQ SPEAPKQEAPAKKSGSKKKGE PGPPDADGPLYLPYKTLVSTVG SMVFNEGEAQRLEILSEKAGII QDTWHKATQKGDPAVILKRQL
10873	41241	A	10935	967	1574	SLKCLHSLSPVHSSYPGKRPEVSF SPINSGQPPNYEMLKEEHEVAV LGVAYNPAPTSTVIHIRNETSV PDHV/VLVPVQHSLEHPCCLGF IAFAYSVKSRHRKMVGDLTGA Q/ALCLHRQVPEHLGPDFGHPH DHSAAHHPSVDLPSLPSSFLLLF LFLFLPALQLLFLSFLVFFFFFS FFPLFQRLELWGWGEWDHST
10874	41242	A	10936	3	370	RVATIVDIWEKSISGKKNSQNL FVNPCCLGFIAFAYSVKSRDRK MVGDLTGAQA/LCLHRQVPEH LSPDCGHPHDHSAHHHPGVDL PSLSIDQEASSRPGARALQDGA WASVFPSVQWEQQGW

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10875	41243	A	10937	76	614	PDRRWSSLDTMNHTGQTFSPV NSGQPPNYEMLKEEHEVAVLG APHNPAPTSTVIHIRSETSVPD HV/VLVPVQHPLHEP\CCLGFIA FAYSVKSRDRKMVGDTVGAQ/ ALCLHRQVPEHLGPDSGHPHD HSAHRHPSADLPGLWIDQEASL RPGALPMTICIPRTPTSIPRPAPR GQELCP
10876	41244	B	10938	695	1011	
10877	41245	A	10939	410	5501	EAKTHKSVMVMTDPLLDSPASS TGEMDGLCEPLLIPPLSNRGI LGPVQSPCPSRDPAPIPTPGCL LVEATATEEGPGNMEIIVETVA GTLTPGAPGETPAPKLPPGEREP SQEAGTPLPGQETAEEENVEKE EKSDTQKDSQKAVDKGQGAQR LEGDVVSGTESLFKTHMCPECK RCFKKRTHLVEHLHLHFPDPSL QCPNCQKFFTSKSLKTHLLRE LGEKAHHCPCHYSAVERNAL NRHMASMHEDIS
10878	41246	A	10940	446	1704	GGPDMDARAPAVGGSCHQHGP SGAPGP/CIGRMES/EVGVRDHA IPEGARCNRFKETTETGPHCSR CGLLCPSPASLRGHTRKQHPRL ECGACQEAFFPSRLALDEHRRQQ HFSHRCQLCDFAAERERVGLVK HYLEQHEETSAAVAASDGDGD AGQPPLHCPFCDFTCRHQLVLD HHVKGHGGTRLYKCTDCAYST KNRQKITWHSRIHTGEKPYHCH LCPYACADPSRLKYHMRJHKEE RKYLCPECGYKCKWVNQLKY HMTKHTGLKPYQCPECEYCTN PADALRVHQETRHREARAFMC EQCGKAFKTRFLLRTHLRKHSE AKPYVCNVCHRAFRWAAGLR HHALTHTD RHPFFCRLCNYKA KQKFQVVKHVRRHHPDQADPN QGVGKDP TPTVHLHDVQLED PSPPAPAAPHTGPEG

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10879	41247	A	10941	1	944	MSILLTSIARQSRDKRTRLGHK QRILAGLGSNHPIRRNLQGLRR FALVDRQLVVQNVVTRWCRM VYQSAANVFIQHRPISHDERVQ QRGTAITMMVQQAQWAERGK SGLSGVAIGPAVDTSALQAQLR ETLPPHMVPVLLQLPLPLSA NGKLDKALPLPELKAQAPGR APKAGSETIIAAAFSSLLGCDVQ DADADFFALGGHSLAMKLAA QLSRQVARQVTPGQVMVASTV AKLATIIDAEDSTRRM/WIRNH SAVA*R*WPDVLFPSVRFCL AVQRALALSRTMVDYRHSVT APQWPHADGGKPG
10880	41248	A	10942	1	939	MRTILTIDIQLRYPRRPGAFGTH TFLKCAFSNKQRRFTVKRFAFL AARYPASQEMPPVRHGHAVAA AIPCGNVPANGNTPARYKGQC GLCSSTLQDALRDFIQVAHTCEI PLMPACFGLADDKLWRWLNE KLPCSLMLLPTLPPSVLGIRLQN QLQRKIVLFGGVWMPGDEVKK VTCKNGVVNEIWTRNHADIPLR PRFAVLASGSFFSGGLVAERNG IREPILGLDVLQTATRGEWYKG DFFAPQPWQQFGVTTDETLRPS QAGQTIENLFAICSM LGGFDPI AQGCGGGVCAVSALHAAQQIA QRAGGQQ
10881	41249	A	10943	25	479	
10882	41250	A	10944	2	453	APSRTSGSSVGLQGSYVLDVDG REFGCERVKG*FLVHRAGHL/L TLWLFSSQINKMEWSRLVSS DPEINTKKINPENSKVSPGWL ELQQEGEGPRCFQSFTDSCHCL PS\SDLDSETRSMVEKMMYDQ RQKSMGLPTSDEQKKQEILKK

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10883	41251	A	10945	3	1110	RDPQERRERGRTRVQSSGTWIGA GAMGGEQEEERFDGMLLAMA HQHEGGVQELVNTFFSFLRRKT DFFIGGEEGMAEKLITQTFSHH NQLAQKTRREKIARQEERREK AERAARLAKEAKSETSGPQIKE LTDEKAEKLQLEIDQKKDAENP EAQLKNGSLDSPGKQDTEDEE EDEKDKGKLKPNLGNADLAQ *RLNPDPCRELDLAVPFCVNFR LK GKDMVVDIQR/RQHLGVGL KGQPAIIDGELYNEVKVEES\SW LIEDGKVVTVHLEKINKMEW WSRLVS\SDPEINTKK\NPENSK LSDLDSETR\SMVEKMMYDQ\ RQKSMGLPTSDEQKK\QEILK\K FM\DQHPEMGFFPKAKFPTNPC
10884	41252	A	10946	50	426	
10885	41253	A	10947	1	942	QVWKQNCFKHYSNETDNSTTQ LVGLQTLQVVVPSLILCEHCMN FSSPHVWCCLVQAVPGGQQGTI MQVPVSGTQGLQQVSNI*KY*A VYQRRGFKE*IITTYQTQQIIQQ PQTAVTAGQTQVIPLALSHRSK TDLEESDN*VRYFPVNADGTIL QQGKCTHKLP*DFLGQLFCPLD N*HLSSSGQGTVTVTLPVAGNV VNSGGMVMVRKCIFQLCL*NF LEHAT*CLKFEPLYVNAKQYH RILKRRQARAKLEAEGKIPKER RVCITLGRI*ERRIAGFYF*NYLL YPKEKDSPHMQVGRHIHFILLFI TLY
10886	41254	A	10948	24	378	
10887	41255	A	10949	15	658	QRPNAAQTQPSRGCQLSAPARA GRFHPQSCRPSRVGCKGHVCIP GDRSLALWPPRLGCGE*TSSAL DSQGILVSNFPHEGS/PTPQQSG LKTGRILLNHGRRRLKVSQSEG RFLEVGWKQRGPTAHRTHSNR TRRRHALSTGGDTGRARNARS GGGRSPRSSLPAASSTPGVCWS PRMSQARQPPSCRRGVPRRPEM LRSLSPSCQICVCVFRFH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10888	41256	A	10950	1171	1639	PMALWADGRARHKVGTCECEC GMHPGLKCSGRTLGSQTMLAT TPCDSPT*/1/SNKNGLRSV/SYR* CLINALWLFISPHILVRCGTESS *LLPSLVPSWLP*LVRVR\PLPT GWC*IPSCCLKPPTWSSHSPQ RLP*NPATLVCLQNGTARSHSS TPV
10889	41257	A	10951	2	357	HERLLNPGRETDWATCYSETAS CSVA*ATVQ*HDHGS�*PQTPG LKWFSHFSLPSSWDYRHVPPCP ETGPCPVTQDGVQWSYHGSL*P QTPRLKQSYHVS�PSSWDYRW EHPVAGKQA
10890	41258	A	10952	15	578	IQTPPKGRRTKPCRQKRTIVTP RQSTPRSNRGKDTRSKQRDETT E*TTRAQDTNKEGATQDRTETA RRTQSNMEKEKPNQHNRKRKD RDSRKDKGHERETKTERNRT KRREKRKDNKHNEAKSQRQTR KKKETKETATRKREEPSNSCSM HPFQISWLHSVGDNGRRDQLLC QGFHLYYLMCFPQ
10891	41259	A	10953	2	369	DIDPTGLQSQGSPKGQDPPLMF SEDYQKSLLEQYHLGLDQKLR KYVVGELIWNFADFMTNQCP KTPPSVILFLPSCEEPQANKATL VCLMNN\FYPGILMVTWKADG TLITQSVEKTPPSKQS
10892	41260	A	10954	1	417	FGTGPSASPRTSFRHQCGH*PH WTA VTVDSQGAGQPKTTPSVIL FLPSCEEPQANKATLVCLMNNF IPGILMVTWKADGTLITQSVEK TT/PSKQSNNKYVASSYLSLTPE \SWRSRRSYSCQVMQEGSTVEK SVAPAECS
10893	41261	A	10955	113	767	GPMRPGTGQGGLEAPGEPGN LRQRWPLLLLGLAVVTHGLLR PTAASQSRALPGAPGGSSRSS LRSRWGRFLLQRGSWTGPRCW PRGFQSKHNSVTHVFGSGTQLT VLSQPQ/ALTPSVILFLPSCEEP QANKA\TLVCLMNDFYPGILTV TWKADGTPITH\GVEKTPPSKQ SNNKYVASS/YTSLTPEQWRS RRSYSCQVMQEGSTVEKS\IAP

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10894	41262	A	10956	1	344	GSAAGQVQQQQQRRHQGKV TVKYDRKELRKRLVLEEWIVE QLGQLYGCEEEEMPEVEIDIDD LLDADSDEERASKLQEALVDC YKPTEEFIKELLSRIRGMREN*A PPPKKSV
10895	41263	A	10957	3	349	TMNNMRGQILLFLLIWLWNR YGQLVGSSEKHKIASQLELIQS QFHYCVTLDKLLNFSEPVHVK QEQLLSVCSEKEVTEVKVLALV NHVGSKCCFLIFCSGPS*PKFSV SQVFSD
10896	41264	A	10958	998	1383	
10897	41265	A	10959	39	402	TDHIMREYKLVVLGSGGVGKS ALTVQFVQGIFVEKYDPTIEDS YRKQVEVDCQQCMLEILD TAG TEQFTAMRDLYMKNQGQGFALV YSITGQSTFNDLQDLREQILRG* RTREDV\PMILVGN
10898	41266	A	10960	25	739	YKKNFDISLLSVKCETCTHMLT SSSL*C*NLICRSLFLIDFNL*AG FVI*VGFTAQSTFNDLQDLREQI LRVKDTEDVSIFSLCKMLCHLS VAK*KSACFQNLARQWCNCAF LESSAKSKINVNEVTYNCWAA QTS AFLVCFKL TARLLALSITNV SSCTGWGVQRSHQDQGN SKHA ASSVWKVGFGIVRLGTGTCLSS LERGYMCKEMEMFDPYTPSRV LKPRSEALELFGPLKSLT
10899	41267	A	10961	946	1424	YFRFLCVIFCSFLLRCLVSRVLL YPMLIAEIPRVQGRGGPSWPGL GGRLLKELSRLLTFLKVRKLSIL SGWREVPLGQPSLTEPP/PPAPP HPGPGSWLASASAPHL SQPPAA GPAGQPPSPGSPVPGGCSLALP VTSVLCLEPPALKPAAASAPVV AVH
10900	41268	A	10962	1	148	TALQEFGTRSGIPALGCPPDP* PPPGSCPPPEPQLLSVGEPSCS CSP
10901	41269	A	10963	10	233	LGAARRAQLLESWPRA\PPPAR LHACHLQP/LPRTPKVHTS*PTQ QQGGFSLCLKKKNVPVSVEMIC SSARLKLTE
10902	41270	A	10964	1	331	RPLLLSTLCWELRAALS YWRA GRAPPPPARLHAGPASGFVWLT PSGGEEGEPRTLWGGGGRRG GGRKKKD*GGQGRGAGGFATF SPPANAPRLHTSLTNSSARWIFL CV

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10903	41271	A	10965	4	1023	FPRAGEKPYTCEESGRAFNQS* TLTTHMTIHAG*KPYKCEECGK AFYRF'SYLTKHMIIHTGETFYK CEECGRGFNWSSTLTKNRIHT GEKPYKCEQCGKALNESSNLT AHKIIHTGEKPYKCEECGKAFN RSPKLTAHKVIHSGEKPYKCEE CGKAFSQSSILTTHKRIHTGEKP YKCEECGKAFNRSSNLTCHKII HTGEKSYKCEECGICRTPKMAV FSQCHQVLKITNIHYPPSIATIVH GDRAQSHVDICTLGDKASGAI GTAFYTTQCEQRAYNETAVSR YTISRPPSHHGGDSETTEFSPAI GRCNGVHKSWGSNRCSDRWRS
10904	41272	A	10966	1	290	
10905	41273	A	10967	1	1508	MSWAARPPFLPQRHAAGQCGP VGVRKEMHCGVASRWRRRRP WLDPAAAAAAVAGGEQQT EPEPGEAGRDGMGDSGRGEC SRRAGEPVTALSATPPPPFPVIS SSMGSPGLPPPAPPGFSGPVSSP QVRGCDQLTAWPLSFSCFPCNP VLGVRGLHCPPPPGPGAGKRL CAICGDRSSGMWLRG*TERESL GHVSSPVG*DLTYSCRDNKDCT VDKRQRNRCQYCRYQKCLATG MKREGKDPPCPGVLDHMPFSLI PLRPPEEMPVDRILEAEAVEQ KSDQGVGPGGTGGSGSSVS GVNPLSFVMGVGGGSLGLWAK RIPHFSSLPLDDQVILLRAGQ*P WIPLTS*HLTPL*LPDLFLATGL HVHRNSAHSAGVGAIFDRSVA LG*AGM*IEGVGL*AGPCLRAII LFNPGKRITFVSQGGNLTGAS SSPMETYCKQKYPEQQGR*DG AGGH*GSLGGGECYEDVFLFFF KLIGDTPIDTFLMEMLEAPHQL
10906	41274	A	10968	945	1131	MICTVAISYVLFVDVYISLLSAT CSPKPQGS AVFQHD*VSPGI*NG SERCCSRDRHRQFLW
10907	41275	A	10969	37	332	AEGIRTIQGTENIFCKVWGRQ VLSQNTLEGQSNHGCQLR KRTFISTFTHYSRFFLQRF/VFP YTGFECQSTAW*KPRYLLSHS VKGKRNLHPA
10908	41276	A	10970	137	283	
10909	41277	B	10971	1	624	

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10910	41278	A	10972	3	618	KTQDPAKAPNTPDILEIEFKKG VPVKVTNVKDGTTHTQTSLELF MYLNEVA\AQHGVGRIDLGDN R\FIGMKGRGIYYTPTGTILYHA HLHIEAFTMDREVRTIIQGLGLK FAELVYTGFVHWSPECELCRHCI AKSQERVEGKVQVSVLKGQVY ILGRESPLSLYNEELVSMNVQG DYEPTDATGFININSLRLKEYHR LQSKVTAK
10911	41279	B	10973	1	1102	
10912	41280	A	10974	748	1396	LYLQRPFFQIRSSLQVLGHRQIF PQSPRCLHLAPPPLMRHSHRSPT WY*FSPRRTQQSRPVSAQPLGS CGGIQPAPPPVTQPSQLSPPRGS R*LGS DGAGTQPRHVQNPCPLT CVHM*SPPPCLNLQARCPQSL RAKVVPAVEQRARVGHVESPG SHCWLEREPEVSGPQQGQRPL PAGAAD*CLGAFWQTHLDLGD SLISCSHDLQGWQLSQA
10913	41281	A	10975	1	846	
10914	41282	A	10976	2	851	WNSAELGRGGPGAGGAGVIGM MRTQCLLGLRTFVAFAAKLWS FFIYLLRRQIRTVIQYQTVRYDI LPLSPVSRNRLAQVKRKILVLD LDETLIHS HDGVLRPTVRPGT PPDFILKVVIDKHPVRFF\VHKR PHVDF FLEVVSQWYELVVFTAS MEIYG\SAVAD\KLDNSRSILKR RYYRQHCTLELG\SYIKD/LSLV VHSDLS\GIVIL\DN PGA\YRSH PGYGG R\DNAIPKSWVSVTPS\ DTALLNLLPMLDALRFTADVRS VLSRNLHQHRLWVTACFPLPP
10915	41283	A	10977	25	153	
10916	41284	A	10978	1	741	MMSFDSMSHIQVMLLQEVPS YPASKKNEA/PQTSGGGPGT KGLGE/PAVVPMSPAVGT/PALT QCHGPHAEDDLEEPILTTDPVA RDCPLDLLMDGKTGAIISSLLHS NCLPAPFCQCSHAVKWQLKTV HSCCPLGEVQPQRRCVIATAKE KGIGVKHHHCNIHSDNVNSIITAT VAAHQQQQLPQNGNNSGIKNN QNSSENTVTNNSKNISNHIICRN SSKNSKSSSSSSNNKNSSNTI NSNNKAR

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10917	41285	A	10979	1	669	MMSFDSMSHIQVMLLQEVPS YPASKKNEA/PQTSGGPGT KGLGE/PAVVPMSPAVGT/PALT QCHGPHDEDDLEEPILTTDPVA RDLTMPTAASQHLQKQCLEHH HYFHSYNINS DITVSRNNISSIIT TPVHHCNIHSDNVNSIITATVAA HQQQQLPQNGNNSGIKNNQNS SENTVTNNSKNISNHIICRNSSK NSKSSSSSSNNKNSSNTINSN NKAR
10918	41286	A	10980	3	980	IESPGFPFPGQLQRPVPHRGEFCL RCTSSEALPCFYSWTVTFSPWT VAAAQGGQPRPGPASRTLLLATQ SEIAAAELGPGSWGPPSSCPSE QSSHGPPASS*AAPLQTGRRLRS RAS*RSGAPSVAAAPLSRPQE RHPSVSASRSGHPPGPCSPPPP AARPVQSPCRAPPGSAAGRAR APHA*AAPGSWLSSAGAAARR WPFQTAKGSGS*DRPGRPGPDA PAAPPGWHRAPPSGSSSGAGTG RHPQPFGRPRRRTAPYAAPCA FVATLVFS*LLIFGGAFSFPALS HCPTSA*LKRLLSEPAPIAFPFG LHPGTLLSRASE
10919	41287	A	10981	1	5229	
10920	41288	A	10982	1	7044	
10921	41289	A	10983	1	3228	
10922	41290	A	10984	10	209	TLSGGEPQRLEAERRARLQDEE RRRQQLE*MRKREAEDRARQ EEERRRQEEERTKRDAEEKVM
10923	41291	A	10985	293	363	
10924	41292	A	10986	3	434	
10925	41293	A	10987	3	1536	
10926	41294	A	10988	315	993	VPVAPIFHFSHFSPAPT VFTQSR QDSMQCILRQHCHLILSRSSSL VPAGLRGAMAFALAIRDTASY ARQMMFTTLLICPELLALLS LSHSRSLLLHGYHGPS*YALFFS LSFSLVTWVGAKPGRYQSLIFV VVVGCTFQNGEPLREEDSDFIL TEGDLTLTYGDSTVTANGSSSS HTASTSLEGSRRTKSSSEEVLER DLGMGDQKVSSRGTRLVFPLE
10927	41295	A	10989	3	320	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10928	41296	A	10990	3	582	GPPTPRRPRPLPSSLPSRRSRDPP RIPLCA*FPQTRKQIARSEPD*T WASQSSTSIPRIWRFVHA*KFST APLTATPPPGKMCSAGCRETVK TT*PPLRGGPAPFLLPSRAVARG TRPGFRSALSFRPGRNRSRGVN LIKLGRLSPPPYPGFGGSYTPE NSQPLPSLLHPLEKCALRDAE RQLKPPDHMLMVAWLIPDVWN GEGEPSPSHTRHSLRASSSNYV LRAPEGNLLARRLPRETAINLQ PKACYKTLSPESFSHFYNQFC PRRHQWLPAPPPGHFFLG
10929	41297	A	10991	3	338	NSPSRPRSSQRGVAGRRSEAGP VAVP*GGPKKGRGC*GNRWWG QRPRWMLRASGSGESTTPACSA ENRHAS*RKKRKRPGQVSWE TEETRSGHSQPRGHAEPLLRP QRR
10930	41298	A	10992	3	226	TILSS*SSSSSSSPSPSPSPSPSP SPSPSPSPSPSPSPSSFFLRWS PALFPRSLSFSLFPGTGTFSCF
10931	41299	A	10993	24	489	KEYLVRTK*QKKGGENPLVKIT FRPPPGRLRTYPSAPWSARSTYG RAAAVWRPHSPSAPRRGTHPW PAGHRGQRASGEGVGTHTHAH MSSVCACSTHTCWSRNCKDPR EDRGRGLTVLLEAAVCNSCLLL VLKTPRNPQLPILYTDSDTKSST GNP
10932	41300	A	10994	1	1491	
10933	41301	A	10995	140	308	RNVIKLGWSRPSKQQDNPTLR PGPPSPAGGFQQLMRMRPLA GGGKSWGIAHFYKPLQRERRA GAECGLARQVRAEVTKWIGVN RRPRKRKRMEKEEVFEKLLPD QLGLLLEHLLQKTLSPRTLQS LQRTYHLQDQDAEVRHRWCEL IVKHKFTKAYKSVERFLQEDQA MGVYLYGELMVSEDARQQQL ARRCFERTKEQMDRSSAQVVA EMLF*RGQDRFSLKKCDKVKG MVKTQQATGQPDSPRPALTG RRVPATADADEKAFGGWRKIL GYRTFL